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*Edward J. Van Dusen*

# West Virginia University Bulletin

Series 40, No. 5-II

November 1939

## THE SCHOOL OF MEDICINE

The 1940-41 Session



MORGANTOWN, WEST VIRGINIA  
Published by the University



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Issued Monthly

# YEAR 1940

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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# YEAR 1941

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>		<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>		<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>			
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MAY							JUNE							JULY							AUGUST							
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<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>									
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<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>																						
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER							
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<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>					
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<b>28</b>	<b>29</b>	<b>30</b>																										

The days on which the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type.

# THE UNIVERSITY CALENDAR

## 1940

May 28, Tuesday, to June 5, Wednesday, inclusive

Final examinations for second semester

May 30, Thursday ----- Memorial Day, a holiday

June 6, Thursday ----- Baccalaureate exercises

June 7, Friday ----- Alumni Day

June 8, Saturday ----- Commencement Day

June 12, Wednesday ----- Registration for first term, Summer Session

June 13, Thursday ----- First recitations of Summer Session

July 4, Thursday ----- Independence Day, a holiday

July 23, Tuesday ----- Close of first term, Summer Session

July 24, Wednesday ----- Registration for second term, Summer Session

July 25, Thursday ----- First recitations of second term, Summer Session

August 27, Tuesday ----- Close of Summer Session

September 13, Friday, to September 18, Wednesday inclusive, Freshman Week

September 17 and 18, Tuesday and Wednesday -- Registration for first semester

September 19, Thursday ----- First recitations of first semester

November 21, Thursday, to November 24, Sunday, inclusive, Thanksgiving recess

November 25, Monday ----- Mid-semester reports due

December 20, Friday, to January 2, Thursday, inclusive ----- Christmas recess

## 1941

January 25, Saturday, to February 1, Saturday, inclusive

Final examinations for first semester

February 4 and 5, Tuesday and Wednesday --- Registration for second semester

February 6, Thursday ----- First recitations of second semester

April 5, Saturday ----- Mid-semester reports due

April 10, Thursday, to April 15, Tuesday, inclusive ----- Easter recess

May 28, Wednesday, to June 5, Thursday, inclusive

Final examinations for second semester

May 30, Friday ----- Memorial day, a holiday

June 5, Thursday ----- Baccalaureate exercises

June 6, Friday ----- Alumni Day

June 7, Saturday ----- Commencement Day

# WEST VIRGINIA UNIVERSITY

Morgantown

Established February 7, 1867

## The West Virginia Board of Control

	TERM EXPIRES
WALTER R. THURMOND, PRESIDENT, <i>Logan</i> .....	June 30, 1941
JOHN BAKER WHITE, SECRETARY, <i>Charleston</i> .....	June 30, 1943
MERRILL D. CARRICO, TREASURER, <i>Terra Alta</i> .....	June 30, 1945

The West Virginia Board of Control has the direction of the financial and business affairs of the state educational institutions.

## The Board of Governors

	TERM EXPIRES
ARTHUR BURKE KOONTZ, PRESIDENT, <i>Charleston</i> .....	June 30, 1940
WRIGHT HUGUS, VICE-PRESIDENT, <i>Wheeling</i> .....	June 30, 1942
HARRIET LOUISE FRENCH, <i>Bluefield</i> .....	June 30, 1941
JOHN JACOB CORNWELL, <i>Romney</i> .....	June 30, 1941
JOHN ROBERT POLAND, <i>Martinsburg</i> .....	June 30, 1940
JOHN DEMPSEY HOBLITZELL, Jr., <i>Parkersburg</i> .....	June 30, 1941
ROBERT HOWARD PRITCHARD, <i>Weston</i> .....	June 30, 1942
CHARLES THOMPSON NEFF, Jr., SECRETARY, <i>Morgantown</i>	

The Board of Governors has charge of the educational and administrative affairs of the University.



MORGANTOWN PRINTING & BINDING COMPANY

# THE SCHOOL OF MEDICINE

## ADMINISTRATION

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CHARLES ELMER LAWALL, E. M., M. S., LL.D., *President of the University.*  
EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Dean.*

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## THE FACULTY

### EMERITUS

JOHN NATHAN SIMPSON, A. B., M. D., F. A. C. P., *Dean Emeritus and Lecturer in History of Medicine.*

### PROFESSORS

EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Professor of Physiology.*

GIDEON STANHOPE DODDS, B. A., M. A., PH. D., *Professor of Histology and Embryology.*

CLEMENT COLEMAN FENTON, A. B., B. S., M. S., M. D., F. A. C. P., *Professor of Pathology and Clinical Pathology.*

ROBB SPALDING SPRAY, B. S., M. S., PH. D., *Professor of Bacteriology and Public Hygiene.*

SIMON B. CHANDLER, A. B., A. M., M. D., *Professor of Gross Anatomy and Neurology.*

### ASSOCIATE PROFESSORS

FREDERICK RENDELL WHITTLESEY, B. A., M. D., F. A. C. P., *Associate Professor of Medicine.*

GEORGE ALBERT EMERSON, A. B., M. S., PH. D., *Associate Professor of Pharmacology.*

DAVID WILMARTH NORTHUP, A. B., A. M., PH. D., *Associate Professor of Physiology.*

MICHAEL ALPHONSE RAFFERTY, PH. C., M. D., *Associate Professor of Biochemistry.*

### ASSISTANT PROFESSORS

GEORGE RALPH MAXWELL, B. S., M. D., F. A. C. P., *Assistant Professor of Physical Diagnosis.*

CECIL BENJAMIN PRIDE, A. B., M. D., F. A. C. S., *Assistant Professor of Surgery.*

JOHN JOSEPH LAWLESS, B. S., M. A., PH. D., M. D., *Assistant Professor of Anatomy.*

ROY ROOSEVELT SUMMERS, B. S., M. D., *Assistant Professor of Physical Diagnosis.*

PERCIVAL LLOYD MACLACHLAN, B. A., PH. D., *Assistant Professor of Biochemistry.*

EUGENE DEANGELIS, B. S., M. D., *Assistant Professor of Pathology.*

### INSTRUCTORS

ALFRED REEVES STANLEY, A. B., M. S., PH. D., *Instructor in Bacteriology.*

ANTHONY VANDRIL CADDEN, B. S., M. D., *Instructor in Medicine.*

DAVID SALKIN, M. D., *Instructor in Medicine.*

MELVIN CRAWFORD GODWIN, A. B., PH. D., *Instructor in Anatomy and Histology.*

WILLIAM FRANCIS HEWITT, JR., A. B., M. S., *Instructor in Physiology.*

E. ROSS HART, A. B., M. S., *Instructor in Pharmacology.*

### LECTURER

ELDON BRYANT TUCKER, B. S., M. D., *Lecturer in Pharmacology (Anesthesiology).*

## TECHNICIANS

FABRY LIVINGSTON HAWK, Reg. Med. Technologist, *Technician in Pathology.*  
 KENNETH DONLEY WILLIS, A. B., *Technician in Anatomy and Histology.*  
 HUGO RICHARD MCGRAW, B. A., M. S., *Technician in Biochemistry.*  
 AILON BUFORD LINGAR, *Technician in Pathology.*

## CLERICAL

FLORENCE ELLIOTT WEAVER, *Secretary.*  
 CONNIE DELPHINE LINTON, A. B., *Assistant Secretary and Record Clerk.*

## STUDENT HEALTH SERVICE

### PHYSICIANS

FREDERICK RENDELL WHITTLESEY, B. A., M. D., F. A. C. P., *Director and Physician.*  
 ROY ROOSEVELT SUMMERS, B. S., M. D., *Assistant Director and Physician.*  
 SAMUEL JOHN MORRIS, M. D., *Physician and Medical Adviser to the Department of Athletics.*

### NURSES

MABEL M. LOVE, R. N., *Nurse in the Student Health Service.*  
 ETHEL FEATHER, *Nurse in the Student Health Service.*

## CLERICAL

HELEN G. WEST, *Secretary.*

## STANDING COMMITTEES

### EXECUTIVE COMMITTEE

EDWARD J. VAN LIERE, *Chairman* *Pride*  
 G. S. DODDS ~~F. R. WHITTLESEY~~

### COMMITTEE ON ENTRANCE AND SCHOLARSHIP

G. S. DODDS, *Chairman*  
 S. B. CHANDLER C. C. FENTON  
 G. A. EMERSON M. A. RAFFERTY

### COMMITTEE ON LIBRARY

S. B. CHANDLER, *Chairman*  
 G. S. DODDS R. S. SPRAY  
~~F. R. WHITTLESEY~~ *Emerson* M. A. RAFFERTY

### COMMITTEE ON RESEARCH

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 R. S. SPRAY *Godwin* G. A. EMERSON  
~~J. J. LAWLESS~~ D. W. NORTHUP

### COMMITTEE ON SEMINARS

A. R. STANLEY *Rafferty* ~~D. W. NORTHUP~~ *H. G. MacLachlan*  
~~F. R. WHITTLESEY~~ *Secretary*  
 G. S. DODDS

### COMMITTEE ON CLINICAL AND SPECIAL FACILITIES

~~F. R. WHITTLESEY~~ *Chairman*  
 C. B. PRIDE G. R. MAXWELL  
 C. C. FENTON

## **GENERAL INFORMATION**

### **INSTRUCTION IN MEDICINE**

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

Only the first two years of medicine are given in West Virginia University. The School has no affiliations with any other Medical School. Upon the satisfactory completion of the two years given, students may transfer to various other medical schools to complete their medical education.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### **BUILDING AND EQUIPMENT**

#### **The Medical Building**

A three-story brick building furnishes room for most of the School of Medicine. On the first floor are the offices of the dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and pathology and two laboratories for physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in a separate building.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

#### **Library**

The Medical Library is not organized as a separate unit but is housed in the University Library building, where the publications of prime importance to the students and faculty of the School of Medicine are to be found in close proximity to the related biological and chemical publications, many of which are also of use to the School of Medicine. The purely chemical volumes are housed in the Chemistry building, which is closely adjacent to the Library building.

There are about 8,000 volumes which may be classified as belonging primarily to the various branches of medical science, including anatomy in

the broad sense, physiology, bacteriology, biochemistry, pathology, public health, hygiene, materia medica and pharmacology, surgery, gynecology, obstetrics, medicine in general, and the history of medicine. These volumes include text-books, monographs, and bound volumes of periodicals.

There are received regularly over 60 medical periodicals and a considerable number of others dealing with chemistry, zoology, botany, genetics, pharmacy, related agricultural subjects, sanitation, and general science. These current periodicals are readily available in the general reading room, where are also found the Quarterly Cumulative Index Medicus and other reference and abstracting publications. Material not available in this library may be borrowed from the Surgeon General's Library, the Library of Congress, and other libraries. A card catalogue of medical books and periodicals is maintained at the Medical Building.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library.

### **LIVING ACCOMMODATIONS**

The University maintains two large dormitories, one for men and one for women. For information as to accommodations and rates, address the office of the Director of Residence Halls and Commons, West Virginia University, Morgantown. Cost of room and board in the dormitory for men ranges from \$267 to \$325 per year; in the dormitory for women, from \$287 to \$325 per year.

Board and lodging are available also in private dwellings in Morgantown at about the same rates as obtain in the dormitories. For further information concerning houses on the approved list, men should address the office of the Director of Student Affairs, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, Morgantown.

### **COST OF A YEAR'S WORK**

A student's textbooks will cost usually about \$30 to \$40 a year and his registration fees, \$254 if a resident; \$404 if a non-resident. There is a breakage deposit of \$10, part of which usually is returned at the end of the year. Traveling expenses, clothing, and other miscellaneous expenses will depend largely upon the tastes and habits of the individual student. In general, however, it may be said that the legitimate cost of a nine-month's term of residence at the University ranges from \$450 to \$700, exclusive of traveling expenses.

### **HEALTH SERVICE**

The Health Service comprising the Infirmary and the University Pharmacy, is maintained by the University for the benefit of the student. Each full-time student is entitled to free medical consultation and advice from the University physician. A moderate charge is made for room calls, X-rays and special laboratory tests, or drugs furnished by the University Pharmacy. Hospitalization of students is afforded when necessary at a local hospital at special rates. The Student Health Service is a part of the Medical School organization. Hospital insurance is included in the student medical fee. This covers the cost of routine hospital care for an aggregate of thirty days in each



school year. This insurance does not cover professional fees which might arise in connection with such hospitalization.

## CLINICAL AND SPECIAL FACILITIES

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine:

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the City Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia county the department of pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the City Hospital, the Monongalia County Hospital, and the Eastmont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

## SEMINAR

On alternate Friday afternoons at 4 o'clock there is held a seminar, attended by faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

## ORGANIZATIONS AND LECTURESHIPS

### Alumni Association

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the

encouragement of scientific and professional progress among its members and the medical profession generally.

### **John N. Simpson Lectureship**

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, now Dean Emeritus of the School of Medicine, giving an annual lecture by some one distinguished in medical research or practice.

## **REQUIREMENTS FOR ADMISSION**

The following requirements for admission conform to the standards of the Council on Medical Education and Hospitals of the American Medical Association and the Association of American Medical Colleges, but our requirements include more than the minimum standards of these organizations.

### **1. How to Apply for Admission**

Applications for admission must be made upon blanks which may be obtained from the dean's office upon request. No application will be considered until the dean's office has received a complete, official transcript of all high-school and college work, including a statement of honorable dismissal. Such records should include a statement of the courses in progress at the time of application, and the applicant should have sent to the Medical School official records of all courses subsequently completed. Applicants who previously have attended any medical school must submit also a complete transcript of all medical work, together with a letter of honorable dismissal from the last medical school attended.

It is the responsibility of the applicants (except those in residence at West Virginia University) to have all the above records forwarded to the Dean of the Medical School. After certificates have been considered by the committee on entrance and the credits recorded, the certificates become the property of the University and are filed permanently in the Registrar's office.

### **2. When to Apply for Admission**

Applications may be made as early as December first for the following school year beginning in September.

### **3. Date of Notification of Applicants**

Every effort is made to consider applications promptly and to notify applicants as soon as possible, usually within a month, whether the answer is acceptance, rejection, or postponement of decision. The first selections will be made early in January. Later applications will be considered as long as there are vacancies.

### **4. Advance Deposit Fee**

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first semester. If this fee is not received within ten days after the date of the

acceptance notice, the place will be considered open to other applicants. If the applicant fails to enter the School of Medicine, this deposit is forfeited. Checks must be made payable to West Virginia University.

## 5. Scholarship

The number of students that can be admitted is definitely limited. In selecting students to fill the available places, preference will be given to applicants of high scholarship. The school reserves the right to reject any applicants whose pre-medical records are unsatisfactory in quality of scholarship.

In computing average grades of students applying for admission to the School of Medicine, grades are expressed in numerical points per semester hour as follows:

A -----	3	D -----	0
B -----	2	E -----	minus 1
C -----	1	F -----	minus 2

These values are applied to all courses (military and physical education excepted) in all institutions attended. The value of minus 1 applies to a grade of E whether this grade is subsequently changed to a passing grade or to a failure. When grades are expressed in a system different from the one in force at West Virginia University, the values will be adjusted to give an equivalent measure of accomplishment.

## 6. Medical Aptitude Test

Applicants are required to take the aptitude test approved by the Association of American Medical Colleges, given annually in all colleges preparing students for the study of medicine. The rating in this test will be considered in determining the fitness of the applicant.

## 7. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Entrance considers such readmissions justified.

## 8. Age

Applicants must be at least 18 years of age at the time of entrance to the Medical School.

## 9. Residence

Preference is given to residents of West Virginia. Non-residents will be considered only after all eligible residents have been admitted.

## 10. Subject Requirements for Admission

All applicants must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college.

## SECONDARY-SCHOOL CREDITS REQUIRED

**Secondary-School Unit.** A unit in any subject represents the amount of work that may be done in a standard high school in a year of 36 weeks, with five recitations each week of no less than 40 minutes each. In courses where laboratory work is required, from two to three hours of laboratory work are considered the equivalent of one hour of recitation, according to the amount of outside preparation required in connection with such work.

For admission to the School of Medicine the applicant must have credit for 15 units of high-school work, as follows:

1. English .....	4 units*
2. A second subject .....	3 units
3. Mathematics .....	
Algebra .....	1 unit
Plane geometry .....	1 unit
4. One other subject .....	2 units
5. Other subjects .....	4 units

The School of Medicine strongly urges that applicants offer two units of Latin.

## COLLEGE CREDITS REQUIRED

In addition to the high-school requirements, applicants must have credit for at least three years' work in a college of recognized standing. This must include 90 semester hours, exclusive of military science and physical education.

Preference is given to applicants whose pre-medical collegiate work was taken in approved colleges of arts and sciences or junior colleges included in the list published by the Council on Medical Education and Hospitals of the American Medical Association.

**College Credit.** A college credit or semester hour represents the amount of work done in one semester in one recitation hour, with two preparation hours a week. From two to three hours of laboratory work are considered equivalent to one hour of recitation, according to the amount of outside work assigned in connection with the laboratory hour.

The following subjects and hours are the minimum requirements for admission. They must be met in full:

English composition and rhetoric .....	6 hours
Physics .....	8 hours
Biological sciences .....	12 hours
(Should be mainly zoology and should include comparative anatomy of the vertebrates.)	
Chemistry .....	20 hours
(Six hours must be organic chemistry)	
Psychology .....	3 hours
A modern foreign language .....	12 hours
(German or French preferred.)	

Electives to meet the required number of hours.

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\*Students who present only 3 units of English for entrance are required to take 6 hours of college English in addition to the minimum number of hours in that subject required for their degree.

Applicants who have not had Latin in high school are urged to take a year of Latin in college.

As electives the following subjects are suggested: Botany, economics, genetics, history, sociology; advanced work in English composition, chemistry, physics, psychology, and zoology. It should be the aim of the student to gain a broad education, containing much training of general importance, rather than to confine his efforts to the required pre-medical sciences. It is not wise to elect subjects that are in any sense a duplication of subject matter given in the medical-school curriculum.

The 12 hours of modern language must be taken in one language. Applicants who have had two units in high school may satisfy the requirement by taking 6 hours of advanced college work in the same language.

## **REGISTRATION**

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each semester. Students will register for the year 1940-41, first semester, on Tuesday and Wednesday, September 17 and 18, 1940; and second semester, on Tuesday and Wednesday, February 4 and 5, 1941.

No student will be permitted to register in the School of Medicine after the first week of classes.

## **DEPARTURE FROM SCHEDULED WORK**

Students must register for all the prescribed courses for each semester, except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the registrar for record.

## **FEEES**

All fees are due and payable at the office of the Financial Secretary on the day of registration.<sup>1</sup> Students registering in the School of Medicine pay the following:

### **ADVANCE DEPOSIT FEE**

Each student is required to make a deposit of \$25 before his name is entered upon the official list for registration in the School of Medicine. If the student enrolls in the School of Medicine this sum is applied to the tuition

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<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the registrar shall notify their instructors that their class cards are to be withdrawn.

of the first semester. In the event of the failure of the student to enter the School of Medicine this deposit fee is forfeited.

### TUITION AND OTHER FEES

	<i>Resident<sup>a</sup></i>	<i>Non-Resident<sup>b</sup></i>
Full time students <sup>2</sup> (per semester) Tuition -----	\$87.00	\$162.00
University Fees -----	40.00	40.00
Total -----	\$127.00	\$202.00
Part-time students (per semester hour) <sup>4</sup> -----	\$ 8.00	\$ 12.50

### SPECIAL FEES

Late registration <sup>5</sup> -----	\$ 2.00
Diploma fee <sup>6</sup> -----	10.00
Student's record fee <sup>7</sup> -----	1.00
Breakage deposit -----	10.00

### REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University:

#### *Amount of Refund*

During the first and second weeks-----	All fees less \$2.50
During the third and fourth weeks-----	80% of fees
During the fifth and sixth weeks-----	60% of fees
During the seventh and eighth weeks-----	40% of fees
Beginning with ninth week-----	No refunds allowed

<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during each semester of the regular academic year. A full-time student receives a student activity book, which entitles him to admission to all out-door athletic events and, by the payment of an additional amount at each event, entitles him to admission to all in-door athletic events held in the Field House. He is entitled also to free medical consultation and advice from the University physician. A moderate charge is made for room calls, x-rays, special laboratory tests, drugs furnished by the University Pharmacy, minor operations, treatment of fractures and dislocations, and intravenous treatment.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicile in this state, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>4</sup>A part-time student is one who is registered for fewer than 10 semester hours per semester during the regular academic year.

<sup>5</sup>As a reward for prompt registration, this fee is not charged to students who procure class cards during the regular registration days set forth in the calendar on page 3.

<sup>6</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>7</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

## STANDARDS OF SCHOLARSHIP

### GRADING AND HONOR POINTS

- A—Excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above the average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—condition<sup>1</sup>
- F—failure
- FIW—failure because of irregular withdrawal
- I—incomplete<sup>2</sup>
- W—all withdrawals prior to mid-semester
- WF—withdrew failing subsequent to mid-semester
- WP—withdrew passing subsequent to mid-semester

The quality of a student's work shall be expressed in honor points, which are based only on grades earned in West Virginia University. All courses taken in this institution which are offered toward credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of 1 honor point per credit-hour to be eligible for graduation.

### REMOVAL OF CONDITIONS

Examinations for the removal of conditions incurred during the first semester will be held during the week following Easter vacation. Examinations for conditions incurred during the second semester of the first year will be held during the first day of registration in September, in order that eligibility of students to enter the second year may be determined.

Examinations for the removal of conditions incurred during the second semester of the second year will be held at dates determined by agreement between the instructor concerned and the Scholarship Committee.

Before these dates those wishing to take the examinations should make application to the professor concerned and take to him the "condition removal" card obtained from the dean's office.

### PROMOTIONS AND SUSPENSIONS

Any student who fails to make passing marks in courses amounting to at least one-half of the total number of hours regularly scheduled for any semester is suspended indefinitely.

No student will be permitted to take any work of the second year until all work of the first semester of the first year has been successfully completed.

<sup>1</sup>A mark of "E" not removed at the time specified for taking the examination becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a C shall be recorded for the removal of a condition.

<sup>2</sup>If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

No student who has aggregate failures for the second semester of the first year of as much as 5 hours will be allowed to take any work of the second year until such deficiency is removed.

A student who during his first year does not make a grade of C or higher in at least half the scheduled credit hours for the year may not register for second-year courses except by special permission of the Scholarship Committee.

### WITHDRAWALS

A student who wishes to withdraw from the School of Medicine during the semester must first obtain from the dean's office a blank on which his instructors may enter the charges against his breakage deposit. He will then obtain a withdrawal card from the Registrar to be signed by the Dean of the Medical School. The student must present this card and his tuition receipt to the Registrar for endorsement and finally present to the Financial Secretary the endorsed receipt together with the unused part of his student activity book, for refunding of fees.

Students who withdraw from the University without permission will at the end of the semester receive a grade of "F" in each of the subjects for which they are registered and will be indefinitely suspended from the University. Students may not withdraw from the University or from any of the classes for which they are enrolled in the last two weeks of the semester.

### REQUIREMENTS FOR DEGREES

The School of Medicine gives no degrees in medicine, inasmuch as only the first two years of medicine are given. It, however, cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree, upon the completion of the two years of medical work, to those students who comply with certain requirements of the College of Arts and Sciences.

A suggested curriculum for pre-medical students is given in the **Catalogue** of the University and in the **Bulletin** of the College of Arts and Sciences.



## THE MEDICAL CURRICULUM

The following courses and hours are required of all medical students. The length of the semester is 17 weeks including the final examination periods.

### THE SCHEDULE OF COURSES

COURSES	Hours Per Week			Hours Per Semester			Semester Hours of Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total	
FIRST YEAR—FIRST SEMESTER							
Gross Anatomy 201 .....	2	12	14	34	204	238	7
Histology 201 .....	2	7	9	34	119	153	5
Biochemistry 201 .....	3	9	12	51	153	204	6
FIRST YEAR—SECOND SEMESTER							
Bacteriology 202 .....	2	8	10	34	136	170	5
Embryology 202 (1st half sem.)	4	7	11	34	59	93	3
Neurology 203 (2nd half sem.)	4	7	11	34	59	93	3
Gross Anatomy 202 .....	1	8	9	17	136	153	4
Physiology 202 .....	2	3	5	34	51	85	3
SECOND YEAR—FIRST SEMESTER							
Pathology 201 .....	5	11	16	85	187	272	8
Physiology 203 .....	5	6	11	85	102	187	7
Pharmacology 202 .....	3	---	3	51	---	51	3
Public Hygiene 203 .....	2	---	2	34	---	34	2
SECOND YEAR—FIRST HALF OF SECOND SEMESTER							
Pharmacology 203 .....	5	9	14	42	76	118	4*
Applied Anatomy 204 .....	2	6	8	17	51	68	2*
Obstetrics 201 .....	4	---	4	34	---	34	2*
History of Medicine 203 .....	1	---	1	8	---	8	0*
Clinical Pathology 203 .....	1	2	3	8	17	25	†
Physical Diagnosis 201 .....	2	2	4	17	17	34	†
Medicine 202 .....	1	---	1	8	---	8	†
Surgery 201 .....	2	---	2	17	---	17	†
*Course completed at mid-semester. †Course continues throughout the semester.							
SECOND YEAR—SECOND HALF OF SECOND SEMESTER							
Clinical Pathology 203 (Cont.)	1	10	11	8	85	93	3
Physical Diagnosis 201 (Cont.)	2	2	4	17	17	34	3
Medicine 202 (Cont.) .....	3	2	5	25	17	42	2
Surgery 201 (Cont.) .....	3	2	5	25	17	42	3
Special Pathology 202 .....	---	5	5	---	42	42	1

\*Course completed at mid-semester.

†Course continues throughout the semester.

## DAY AND HOUR SCHEDULE

## FIRST YEAR—FIRST SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M	Biochemistry 201				*	Anatomy 201				*		
T	Histology 201				*	Anatomy 201				*		
W	Biochemistry 201				*	*						
Th	Histology 201				*	Anatomy 201				*		
F	Biochemistry 201				*	Histol 201	Anatomy 201				*	
S	*	Anatomy 201			*							

## FIRST YEAR—SECOND SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M	Embryology 202 Neurology 203				*	Anatomy 202				*		
T	Bact. 202	Physiol. 202	Bacteriol. 202		*	Physiology 202				*		
W	Embryol. 202 Neurol. 203		Bacteriol. 202		*	Anatomy 202				*		
Th	Emb. 202 Neur. 203	Physiol. 202	Bacteriol. 202		*	Embryology 202 Neurology 203				*		
F	Emb. 202 Neur. 203	Bacteriology 202			*	Anatomy 202				*		

## SECOND YEAR—FIRST SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M	*	Physiol. 203	Pathol. 201	Pharm. 202	*	Pathology 201						
T	*	Physiol. 203	Pathol. 201	Hygiene 203	*	Physiology 203					*	
W	Pharm. 202	Physiol. 203	Pathol. 201	*	*	Pathology 201						
Th	*	Physiol. 203	Pathol. 201	Hygiene 203	*	Physiology 203					*	
F	*	Physiol. 203	Pathol. 201	Pharm. 202	*	Pathology 201						

\*Vacant period.

## SECOND YEAR—SECOND SEMESTER—FIRST HALF

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M	Pharm. 203	Phys. D. 201	Obstet. 201	Surg. 201	*			Pharmacology 203				*
T	Pharm. 203	Anat. 204	Obstet. 201	Hist. Med. 203	*			Anatomy 204				*
W	Pharm. 203	Phys. D. 201	Obstet. 201	Surg. 201	*			Pharmacology 203				*
Th	Pharm. 203	Anat. 204	Obstet. 201	Pathol. 203	*			Anatomy 204				*
F		Phys. Diag. 201	Med. 202	Pharm. 203	*			Pharmacology 203				*
S	*		Pathol. 203					*				

## SECOND YEAR—SECOND SEMESTER—SECOND HALF

	8	9	10	11	12	2	3	4	5
M	*		Medicine 202 or Surgery 201	Surg. 201	*		Med. 202		Pathology 203
T			Pathology 203	Surg. 201	*		Phys. D. 201		Pathology 202
W	*		Medicine 202 or Surgery 201	Surg. 201	*		Med. 202		Pathology 203
Th			Pathology 202 or Medicine 202	*	*		Phys. D. 201		Pathology 203
F			Physical Diag. 201	*	*	*	Med. 202		Pathology 203
S	*		Pathology 202 or Medicine 202	*	*	*	*	*	*

During this half of the semester all students, in small groups, spend a week in a hospital clerkship at the Hopemont Sanitarium.

## COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester

II—a course offered during the second semester

I, II—a semester course offered each semester

Yr.—a continuous course extending through two semesters

PR.—prerequisite

Hrs.—Number of credit hours per course.

NOTE—Courses marked "1" are required of first-year students; those marked "2" are required of second-year students.

In addition to the required courses there are listed some elective courses. These are for the benefit of the occasional advanced student who may need them. These courses are given only when, in the opinion of the department concerned and of the dean, it is considered advisable.

On the following pages those staff members who are designated by the title "Dr." have the M. D. degree. All others, most of whom have the Ph. D. degree, are designated as "Mr." in accordance with the custom in University publications.

### GROSS ANATOMY AND NEUROLOGY

Professor CHANDLER; Assistant Professor LAWLESS; Instructor GODWIN

- 201.<sup>1</sup> **Gross Anatomy.** I. 7 Hrs. Lectures and recitations, 2 hours per week; laboratory, 12 hours per week. PR: Zoology; comparative anatomy desirable. Staff
- 202.<sup>1</sup> **Gross Anatomy.** II. 4 Hrs. Continuation of Anatomy 201. Lecture, 1 hour per week; laboratory, 8 hours per week. PR: Anatomy 201. Staff
- 203.<sup>1</sup> **Neurology.** II. 3 Hrs. Lectures, 4 hours per week; laboratory, 7 hours per week. Second half of semester. PR: Histology 201, Anatomy 201. Dr. Lawless
- 204.<sup>2</sup> **Applied Anatomy.** II. 2 Hrs. Lectures, 2 hours per week; laboratory, 6 hours per week. First half of semester. PR: Anatomy 201 and 202, Neurology 203, and Embryology 202. Dr. Chandler
211. **Anatomy of the Sympathetic Nervous System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler
212. **Applied Anatomy of the Pelvis and Perineum.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Staff
381. **Advanced Anatomy.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler

## HISTOLOGY AND EMBRYOLOGY

Professor DODDS; Instructor GODWIN

- 201.<sup>1</sup> **Histology.** I. 5 Hrs. Lectures, 2 hours per week; laboratory, 7 hours per week. PR: Zoology, Anatomy 201 or acceptable substitute. Staff
- 202.<sup>1</sup> **Embryology.** II. 3 Hrs. Lectures, 4 hours per week; laboratory, 7 hours per week. First half of semester. PR: Histology 201 and Anatomy 201. Staff
211. **The Histology and Development of the Skeletal System.** I. or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature. Mr. Dodds
213. **Advanced Embryology.** I or II. 2-5 Hrs. With special emphasis on early stages of development. Hours to be arranged. Open to properly qualified students. Mr. Godwin
381. **Research in Microscopic or Developmental Anatomy.** I. or II or Yr. 2-5 Hrs. Hours to be arranged. Elective. Open to properly qualified students. Staff

## BIOCHEMISTRY

Associate Professor RAFFERTY; Assistant Professor MACLACHLAN

239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of both animals and plants. PR: Chemistry 31, 36, or 233. Lecture, 2 hours; laboratory, 6 hours per week. Graduate students required to do one hour additional work per week for 4 hours' credit. Staff
- 201.<sup>1</sup> **Biochemistry.** I. 6 Hrs. Lecture, 3 hours per week; laboratory, 9 hours per week. PR: inorganic and organic chemistry, quantitative analysis, and zoology. Staff
211. **Chemistry of Carbohydrates, Fats and Proteins.** I. 5 Hrs. Lecture, 2 hour per week; laboratory, 6 hours per week. PR: inorganic chemistry, organic chemistry, and qualitative analysis. Staff
212. **Chemistry of Digestion, Metabolism, and Excretion.** II. 5 Hrs. Lecture, 2 hours per week; laboratory, 6 hours per week. PR: inorganic chemistry, organic chemistry, and qualitative analysis. Staff
213. **Quantitative Method of Urine and Blood Analysis.** II. 5 Hrs. Lecture, 2 hours per week; laboratory, 6 hours per week. Open to properly qualified students. Dr. Rafferty
214. **Biochemical Preparations.** I or II. 3 Hrs. Dr. Rafferty
215. **Biochemical Preparations.** I or II. 3 Hrs. Dr. Rafferty
381. **Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students. Staff

## BACTERIOLOGY AND PUBLIC HYGIENE

Professor SPRAY; Instructor STANLEY

101. **Pathogenic Bacteriology.** I. 5 Hrs. Required of Pharmacy students. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours per week. PR: Organic chemistry. Mr. Stanley
- 202.<sup>1</sup> **Medical Bacteriology.** II. 5 Hrs. Lecture, 2 hours per week; laboratory, 8 hours per week. PR: Biochemistry 201. Staff
- 203.<sup>2</sup> **Public Hygiene.** I. 2 Hrs. Lecture, 2 hours per week. PR: Bacteriology 202. Mr. Spray
211. **Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students. Mr. Spray
381. **Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 202 or equivalent. Mr. Spray

## PHYSIOLOGY

Professor VAN LIERE; Associate Professor NORTHUP; Instructor HEWITT

101. **Elementary Physiology.** II. 4 Hrs. For pharmacy students. Lecture, 3 hours per week; laboratory, 3 hours per week.  
Mr. Northup and Mr. Hewitt
- 202.<sup>1</sup> **Physiology.** II. 3 Hrs. Physiology of muscle and nervous system. Lecture, 2 hours per week; laboratory 3 hours per week. PR: Biochemistry 201 and Histology 201.  
Staff
- 203.<sup>2</sup> **Physiology.** I. 7 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours per week. PR: Physiology 202; Anatomy 201 and 202, and Neurology 202.  
Staff
211. **Seminar in Physiology.** Yr. No credit  
Staff
212. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged.  
Dr. Van Liere
213. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged.  
Dr. Van Liere
214. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged.  
Mr. Northup
381. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the Master of Science degree.

## PATHOLOGY

Professor FENTON; Assistant Professor DEANGELIS

- 201.<sup>2</sup> **General and Tumor Pathology.** I. 8 Hrs. Lecture, 5 hours per week; laboratory, 11 hours per week. Demonstrations. PR: Biochemistry 201, Physiology 202, Anatomy 201 and 202, and Bacteriology 201.  
Staff
- 202.<sup>2</sup> **Special Pathology.** II. 1 Hr. Second half of semester: Lecture, 1 hr. per week; laboratory, 4 hrs. per week. A study of special diseases, with gross and microscopic specimens from selected autopsies.
- 203.<sup>2</sup> **Clinical Pathology.** II. 3 Hrs. A laboratory course in blood, gastric contents, etc., and their pathological and clinical significance. Lecture, 1 hour per week throughout the semester; laboratory, first half of semester, 2 hours per week; second half, 10 hours per week.  
Staff
211. **Pathology (Special).** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR. Pathology 201.  
Staff
381. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.  
Dr. Fenton

## PHARMACOLOGY

Associate Professor EMERSON; Instructor HART; Lecturer TUCKER

- 202.<sup>2</sup> **Medical Pharmacology.** I. 3 Hrs. Lecture, 3 hours per week. PR: Physiology 202.  
Mr. Emerson
- 203.<sup>2</sup> **Medical Pharmacology and Pharmacodynamics.** II. 4 Hrs. First half of the semester: lecture, 5 hours per week; laboratory, 9 hours per week. PR: Pharmacology 202.  
Staff
211. **Biochemorphology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 202, or Chemistry 233 and 239.  
Staff

212. **Bioassay and Comparative Pharmacology.** I and II. 3 Hrs. Lectures and demonstrations, 2 hours per week; laboratory, 3 hours per week. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 202; or Chemistry 233 or 239 and Histology 201, or Pharmacy 110. Staff
213. **Introductory Therapeutics.** II. 1 Hr. Lecture, 2 hours per week. Second half of semester. PR: Pharmacology 202. Mr. Emerson
214. **Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week, laboratory, 3 hours per week. PR: Physiology 202. Staff
381. **Research in Pharmacology.** I and II. 2-5 Hrs. Hours to be arranged. PR: Graduate status in physiology, chemistry, or agriculture. Mr. Emerson

## MEDICINE

Associate Professor WHITTLESEY; Assistant Professors MAXWELL and SUMMERS;  
Instructors CADDEN and SALKIN; Lecturer SIMPSON

- 201.<sup>2</sup> **Physical Diagnosis.** II. 3 Hrs. First half of semester: lecture, 2 hours per week; laboratory, 2 hours per week; second half of semester: lecture, 2 hours per week; practical work with patients, 2 hours per week. Hospital clerkship at Hopemont Sanitarium one week. Staff
- 202.<sup>2</sup> **Medicine.** II. 2 Hrs. First semester: demonstration of clinical cases, 1 hour per week. Second semester, first half: lecture, 1 hour per week; second half: lecture, 3 hours per week, demonstration of clinical cases 2 hours per week. Medical problems are also considered in the clerkship at Hopemont Sanitarium. Staff
- 203.<sup>2</sup> **History of Medicine.** II. No Cr. A brief history of the development of medicine. Dr. Simpson

## INTRODUCTORY SURGERY

Assistant Professor PRIDE

- 201.<sup>2</sup> **Principles of Surgery.** II. 3 Hrs. First half of semester: lecture, 2 hours per week; second half of semester: lecture, 3 hours per week; demonstrations of clinical cases and operative technique, 2 hours per week. PR: Anatomy 201 and 202. Applied Anatomy to be taken concurrently.

## OBSTETRICS

Professor VAN LIERE

- 201.<sup>2</sup> **Obstetrics.** II. 2 Hrs. An introductory course in obstetrics. First half of semester: lecture, 4 hours per week. PR: Anatomy 201 and 202, Physiology 202 and 203 and Pathology 201.

## THE LIST OF STUDENTS, 1939-40

### FIRST-YEAR STUDENTS, SCHOOL OF MEDICINE

APPLEBY, GEORGE STEPHEN .....	Martinsburg
A. B., West Virginia University, 1939	
BERRY, ROBERT ZINN .....	Flatwoods
A. B., West Virginia University, 1939	
<del>CALFEE, JAMES EDMUND</del> .....	Whitesville
A. B., West Virginia University, 1939	
CASHMAN, HAROLD HARDERN .....	Morgantown
COCHRAN, ROBERT BRADY .....	New Cumberland
A. B., West Virginia University, 1939	
CRITES, JOHN LEE .....	Charleston
A. B., Denison University, 1939	
DAVIS, DELROY RICHARD .....	Kingwood
<del>DUNBAR, WILLO VERLUS</del> .....	Gauley Bridge
B. S., Marshall College, 1939	
<del>DURANT, FRANCIS CHRISTIAN</del> .....	New Martinsville
A. B., West Virginia University, 1939	
EAKLE, HOY ELDREDGE .....	Tesla
FLEMING, ROBERT JOSEPH .....	Morgantown
GLENN, WALTER JUSTIS, JR. ....	Fairmont
A. B., Fairmont State Teachers College, 1936	
A. M., University of Michigan, 1937	
HAMILTON, ROBERT BURKE .....	Fairmont
A. B., West Virginia University, 1939	
HASSIG, DONALD GRAE .....	Paden City
B. S., Bethany College, 1938	
LEE, FERDINAND WAYNE .....	Morgantown
LILLY, MILTON JUDSON .....	Frazier's Bottom
B. S., Marshall College, 1939	
MILES, HOWARD CARSON .....	Huntington
MORRIS, JOHN DAVID .....	Morgantown
<del>OSTROSKI, JOHN WAITER</del> .....	Weirton
PORTNOFF, CLIFTON LEW .....	White Sulphur Springs
<del>PREZIOSO, TORINO JOSEPH</del> .....	Monongah
A. B., West Virginia University, 1938	
M. S., West Virginia University, 1939	
ROGERS, ROBERT ARNOLD .....	Keyser
SHEIN, MELVIN .....	Williamson
A. B., Berca College, 1939	
<del>SHOWERS, EDWARD FRANCIS</del> .....	Morgantown
VAUPEL, GEORGE EALY .....	Moundsville
B. S., Bethany College, 1939	



## SECOND-YEAR STUDENTS, SCHOOL OF MEDICINE

BUSH, ALFRED KYLE .....	Glenville
A. B., Glenville State Teachers College, 1935	
CLUBB, ELMORE MEREDITH .....	Clarksburg
A. B., West Virginia University, 1938	
CURRENCE, WILLIAM WARD .....	Clarksburg
B. S., Virginia Military Institute, 1935	
FRAME, EUGENE MARTIN .....	Charleston
A. B., New River State College, 1936	
GAYDOSII, FRANCIS JOSEPH .....	Wheeling
GWINN, FRANK WILLIAM .....	Lowell
HAISLIP, CHARLES ARTHUR .....	Grafton
A. B., West Virginia University, 1939	
HEISKELL, EDGAR FRANK, JR. ....	Morgantown
A. B., West Virginia University, 1938	
HUFFMAN, JACOB SAMUEL .....	Egdon
A. B., Bridgewater College, 1933	
JOHNS, NICHOLAS CHARREL .....	Monongah
A. B., West Virginia University, 1938	
LEEF, JOHNSEY LEE .....	Grassy Meadows
B. S., Marshall College, 1939	
NUNNALLY, WILLIAM ORD .....	Wileoe
A. B., West Virginia University, 1939	
PONKA, JOSEPH LUKE .....	Morgantown
ROSS, CHARLES HENRY .....	Wayne
B. S., West Virginia University 1939	
SHAWKEY, GEORGE ARTHUR .....	Charleston
A. B., West Virginia University, 1938	
SNYDER, THOMAS MALCOLM .....	Roanoke
B. S., University of Pittsburgh, 1938	
TOWSEND, MILFORD FOREST .....	Philippi
B. S., West Virginia Wesleyan College, 1936	
TROTTER, ROBERT RUSSELL .....	Morgantown
YOUNG, JOHN PAUL, JR. ....	Clarksburg
A. B., West Virginia University, 1939	
ZEPP, EDWIN ANDREW .....	Martinsburg
A. B., West Virginia University, 1939	







# **West Virginia University Bulletin**

Series 41, 7-1

January, 1941

## **Announcements THE SCHOOL OF MEDICINE The 1941-42 Session**



**MORGANTOWN, WEST VIRGINIA**  
Published by the University

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Morgantown, West Virginia, under the Act of August 24, 1912

Issued Monthly

# Year 1941

JANUARY							FEBRUARY							MARCH							APRIL									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
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12	13	14	15	16	17	18	9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19			
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26	27	28	29	30	31		23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30						
MAY							JUNE							JULY							AUGUST									
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER									
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# Year 1942

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2	7	1	2	3	4	5	6			1	2	3	4								
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
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31																					30	31					
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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27	28	29	30				25	26	27	28	29	30	31	29	30						27	28	29	30	31		

The days on which the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type.

# The University Calendar

## 1941

May 28, Wednesday, to June 5, Thursday, inclusive

Final examinations for second semester

May 30, Friday ----- Memorial Day, a holiday  
 June 5, Thursday ----- Baccalaureate exercises  
 June 6, Friday ----- Alumni Day  
 June 7, Saturday ----- Commencement Day  
 June 11, Wednesday ----- Registration for first term, Summer Session  
 June 12, Thursday ----- First recitations of Summer Session  
 July 4, Friday ----- Independence Day, a holiday  
 July 22, Tuesday ----- Close of first term, Summer Session  
 July 23, Wednesday ----- Registration for second term, Summer Session  
 July 24, Thursday ----- First recitations of second term, Summer Session  
 August 26, Tuesday ----- Close of Summer Session  
 September 12, Friday, to September 17, Wednesday, inclusive, Freshman Week  
 September 16 and 17, Tuesday and Wednesday --- Registration for first semester  
 September 18, Thursday ----- First recitations of first semester  
 November 20, Thursday, to November 23, Sunday, inclusive, Thanksgiving recess  
 November 24, Monday ----- Mid-semester reports due  
 December 21, Sunday, to January 4, Sunday, inclusive ----- Christmas recess

## 1942

January 24, Saturday, to January 31, Saturday, inclusive

Final examinations for first semester

February 3 and 4, Tuesday and Wednesday --- Registration for second semester  
 February 5, Thursday ----- First recitations of second semester  
 April 2, Thursday, to April 7, Tuesday, inclusive ----- Easter recess  
 April 8, Wednesday ----- Mid-semester reports due  
 May 27, Wednesday, to June 5, Friday, inclusive

Final examinations for second semester

May 30, Saturday ----- Memorial Day, a holiday  
 June 6, Saturday ----- Alumni Day  
 June 7, Sunday ----- Baccalaureate exercises  
 June 8, Monday ----- Commencement Day  
 June 10, Wednesday ----- Registration for first term, Summer Session  
 June 11, Thursday ----- First recitations, Summer Session  
 July 4, Saturday ----- Independence Day, a holiday  
 July 21, Tuesday ----- Close of first term, Summer Session  
 July 22, Wednesday ----- Registration for second term, Summer Session  
 July 23, Thursday ----- First recitations of second term, Summer Session  
 September 1, Tuesday ----- Close of Summer Session

# West Virginia University

## Morgantown

Established February 7, 1867

### The West Virginia Board of Control

	TERM EXPIRES
WALTER R. THURMOND, PRESIDENT, <i>Logan</i> .....	June 30, 1941
JOHN BAKER WHITE, SECRETARY, <i>Charleston</i> .....	June 30, 1943
MERRILL D. CARRICO, TREASURER, <i>Terra Alta</i> .....	June 30, 1945

The West Virginia Board of Control has the direction of the financial and business affairs of the state educational institutions.

### The Board of Governors

	TERM EXPIRES
ARTHUR BURKE KOONTZ, PRESIDENT, <i>Charleston</i> .....	June 30, 1940
WRIGHT HUGUS, VICE-PRESIDENT, <i>Wheeling</i> .....	June 30, 1942
HARRIET LOUISE FRENCH, <i>Bluefield</i> .....	June 30, 1941
JOHN JACOB CORNWELL, <i>Romney</i> .....	June 30, 1941
JOHN ROBERT POLAND, <i>Martinsburg</i> .....	June 30, 1940
JOHN DEMPSEY HOBLITZELL, Jr., <i>Parkersburg</i> .....	June 30, 1941
ROBERT HOWARD PRITCHARD, <i>Weston</i> .....	June 30, 1942
CHARLES THOMPSON NEFF, Jr., SECRETARY, <i>Morgantown</i>	

The Board of Governors has charge of the educational and administrative affairs of the University.



MORGANTOWN PRINTING & BINDING COMPANY



# THE SCHOOL OF MEDICINE

## ADMINISTRATION

CHARLES ELMER LAWALL, E. M., M. S., LL.D., *President of the University.*  
EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Dean.*

## THE FACULTY

### EMERITUS

JOHN NATHAN SIMPSON, A. B., M. D., F. A. C. P., *Dean Emeritus and Lecturer in History of Medicine.*

### PROFESSORS

EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Professor of Physiology.*  
GIDEON STANHOPE DODDS, B. A., M. A., PH. D., *Professor of Histology and Embryology.*  
CLEMENT COLEMAN FENTON, A. B., B. S., M. S., M. D., F. A. C. P., *Professor of Pathology and Clinical Pathology.*  
ROBB SPALDING SPRAY, B. S., M. S., PH. D., *Professor of Bacteriology and Public Hygiene.*  
SIMON B. CHANDLER, A. B., A. M., M. D., *Professor of Gross Anatomy and Neurology.*

### ASSOCIATE PROFESSORS

FREDERICK RENDELL WHITTLESEY, B. A., M. D., F. A. C. P.,\* *Associate Professor of Medicine.*  
GEORGE ALBERT EMERSON, A. B., M. S., PH. D., *Associate Professor of Pharmacology.*  
DAVID WILMARTH NORTHUP, A. B., A. M., PH. D., *Associate Professor of Physiology.*  
MICHAEL ALPHONSE RAFFERTY, PH. C., M. D., *Associate Professor of Biochemistry.*

### ASSISTANT PROFESSORS

GEORGE RALPH MAXWELL, B. S., M. D., F. A. C. P., *Assistant Professor of Physical Diagnosis.*  
CECIL BENJAMIN PRIDE, A. B., M. D., F. A. C. S., *Assistant Professor of Surgery.*  
ROY ROOSEVELT SUMMERS, B. S., M. D., *Assistant Professor of Physical Diagnosis.*  
PERCIVAL LLOYD MACLACHLAN, B. A., PH. D., *Assistant Professor of Biochemistry.*  
EUGENE DEANGELIS, B. S., M. D., *Assistant Professor of Pathology.*  
MELVIN CRAWFORD GODWIN, A. B., PH. D., *Assistant Professor of Histology and Anatomy.*

### INSTRUCTORS

ALFRED REEVES STANLEY, A. B., M. S., PH. D., *Instructor in Bacteriology.*  
ANTHONY VANDRIL CADDEN, B. S., M. D., *Instructor in Medicine.*  
DAVID SALKIN, M. D., *Instructor in Medicine.*  
MELVIN SCHADEWALD, B. S., M. S., *Instructor in Anatomy.*  
JOHN CLIFFORD STICKNEY, B. S., M. S., PH. D., *Instructor in Physiology.*  
JAMES MORRISON, A. B., M. S., *Instructor in Pharmacology.*

### LECTURER

ELDON BRYANT TUCKER, B. S., M. D., *Lecturer in Pharmacology (Anesthesiology).*

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\* Resigned September 1, 1940.

## TECHNICIANS

FABRY LIVINGSTON HAWK, Reg. Med. Technologist, *Technician in Pathology.*

KENNETH DONLEY WILLIS, A. B., *Technician in Anatomy and Histology.*

ROBERT EDWARD SHEARER, A. B., *Technician in Biochemistry.*

AILON BUFORD LINGAR, *Technician in Pathology.*

## CLERICAL

FLORENCE ELLIOTT WEAVER, *Secretary.*

LOUISE W. GROW, A. B., *Assistant Secretary and Record Clerk.*

## STUDENT HEALTH SERVICE

### PHYSICIANS

FREDERICK RENDELL WHITTLESEY, B. A., M. D., F. A. C. P., *\*Director and Physician.*

ROY ROOSEVELT SUMMERS, B. S., M. D., *Assistant Director and Physician.*

SAMUEL JOHN MORRIS, M. D., *Physician and Medical Adviser to the Department of Athletics.*

JOHN FRANKLIN STECKER, B. S., M. D., *Physician.*

### NURSES

MABEL M. LOVE, R. N., *Nurse in the Student Health Service.*

ETHEL FEATHER, *Nurse in the Student Health Service.*

MARIE HADDOCK, R. N., *Nurse in the Student Health Service.*

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\* Resigned September 1, 1940.

## STANDING COMMITTEES

### EXECUTIVE COMMITTEE

EDWARD J. VAN LIERE, *Chairman*

G. S. DODDS

C. B. PRIDE

### COMMITTEE ON ENTRANCE AND SCHOLARSHIP

G. S. DODDS, *Chairman*

S. B. CHANDLER

C. C. FENTON

G. A. EMERSON

M. A. RAFFERTY

### COMMITTEE ON LIBRARY

S. B. CHANDLER, *Chairman*

G. S. DODDS

R. S. SPRAY

G. A. EMERSON

M. A. RAFFERTY

### COMMITTEE ON RESEARCH

EDWARD J. VAN LIERE, *Chairman*

R. S. SPRAY

G. A. EMERSON

M. C. GODWIN

D. W. NORTHUP

### COMMITTEE ON SEMINARS

M. A. RAFFERTY

D. W. NORTHUP

P. L. MACLACHLAN

E. DEANGELIS

G. S. DODDS

### COMMITTEE ON CLINICAL AND SPECIAL FACILITIES

C. B. PRIDE, *Chairman*

C. C. FENTON

G. R. MAXWELL

## **GENERAL INFORMATION**

### **INSTRUCTION IN MEDICINE**

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

Only the first two years of medicine are given in West Virginia University. The School has no affiliations with any other Medical School. Upon the satisfactory completion of the two years given, students may transfer to various other medical schools to complete their medical education.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### **BUILDING AND EQUIPMENT**

#### **The Medical Building**

A three-story brick building furnishes room for most of the School of Medicine. On the first floor are the offices of the dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and pathology and two laboratories for physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in a separate building.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

#### **Library**

The Medical Library is not organized as a separate unit but is housed in the University Library building, where the publications of prime importance to the students and faculty of the School of Medicine are to be found in close proximity to the related biological and chemical publications, many of which are also of use to the School of Medicine. The purely chemical volumes are housed in the Chemistry building, which is closely adjacent to the Library building.

There are about 8,000 volumes which may be classified as belonging primarily to the various branches of medical science, including anatomy in

the broad sense, physiology, bacteriology, biochemistry, pathology, public health, hygiene, materia medica and pharmacology, surgery, gynecology, obstetrics, medicine in general, and the history of medicine. These volumes include text-books, monographs, and bound volumes of periodicals.

There are received regularly over 60 medical periodicals and a considerable number of others dealing with chemistry, zoology, botany, genetics, pharmacy, related agricultural subjects, sanitation, and general science. These current periodicals are readily available in the general reading room, where are also found the Quarterly Cumulative Index Medicus and other reference and abstracting publications. Material not available in this library may be borrowed from the Surgeon General's Library, the Library of Congress, and other libraries. A card catalogue of medical books and periodicals is maintained at the Medical Building.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library.

### **LIVING ACCOMMODATIONS**

The University maintains two large dormitories, one for men and one for women. For information as to accommodations and rates, address the office of the Director of Residence Halls and Commons, West Virginia University, Morgantown. Cost of room and board in the dormitory for men ranges from \$267 to \$325 per year; in the dormitory for women, from \$287 to \$325 per year.

Board and lodging are available also in private dwellings in Morgantown at about the same rates as obtain in the dormitories. For further information concerning houses on the approved list, men should address the office of the Director of Student Affairs, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, Morgantown.

### **COST OF A YEAR'S WORK**

A student's text books will cost usually about \$40 to \$60 a year and his registration fees, \$254 if a resident; \$404 if a non-resident. There is a breakage deposit of \$10, part of which usually is returned at the end of the year. Traveling expenses, clothing, and other miscellaneous expenses will depend largely upon the tastes and habits of the individual student. In general, however, it may be said that the legitimate cost of a nine-month's term of residence at the University ranges from \$450 to \$700, exclusive of traveling expenses.

### **HEALTH SERVICE**

The Student Health Service is a part of the Medical School organization and comprises the Infirmary and the University Pharmacy maintained by the University for the benefit of the student. Each full-time student is entitled to free medical consultation and advice from the University physician. A moderate charge is made for room calls, X-rays and special laboratory tests, or drugs furnished by the University Pharmacy. Hospital insurance is included in the student medical fee. This covers the cost of routine hospital care for an aggregate of thirty days in each school year. This insurance does not cover professional fees which might arise in connection with such hospitalization.

## CLINICAL AND SPECIAL FACILITIES

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine:

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the City Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia county the department of pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the City Hospital, the Monongalia County Hospital, and the Eastmont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

## SEMINAR

On alternate Friday afternoons at 4 o'clock there is held a seminar, attended by faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

## ORGANIZATIONS AND LECTURESHIPS

### Alumni Association

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

## REQUIREMENTS FOR ADMISSION

The following requirements for admission conform to the standards of the Council on Medical Education and Hospitals of the American Medical Association and the Association of American Medical Colleges, but our requirements include more than the minimum standards of these organizations.

### 1. How to Apply for Admission

Applications for admission must be made upon blanks which may be obtained from the dean's office upon request. No application will be considered until the dean's office has received a complete, official transcript of all high-school and college work, including a statement of honorable dismissal. Such records should include a statement of the courses in progress at the time of application, and the applicant should have sent to the Medical School official records of all courses subsequently completed. Applicants who previously have attended any medical school must submit also a complete transcript of all medical work, together with a letter of honorable dismissal from the last medical school attended.

It is the responsibility of the applicants (except those in residence at West Virginia University) to have all the above records forwarded to the Dean of the Medical School. After certificates have been considered by the committee on entrance and the credits recorded, the certificates become the property of the University and are filed permanently in the Registrar's office.

### 2. When to Apply for Admission

Applications should be made early. October is not too early to apply for the following school year beginning in September.

### 3. Date of Notification of Applicants

The first selections will be made in December. Later applications will be considered as long as there are vacancies. Every effort is made to consider applications promptly and to notify applicants as soon as possible, usually within a month, whether the answer is acceptance, rejection, or postponement of decision.

### 4. Advance Deposit Fee

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first semester. If this fee is not received within ten days after the date of the acceptance notice, the place will be considered open to other applicants. If the applicant fails to enter the School of Medicine, this deposit is forfeited. Checks must be made payable to West Virginia University.

### 5. Scholarship

The number of students that can be admitted is definitely limited. In selecting students to fill the available places, preference will be given to applicants of high scholarship. The school reserves the right to reject any applicants whose pre-medical records are unsatisfactory in quality of scholarship.

In computing average grades of students applying for admission to the School of Medicine, grades are expressed in numerical points per semester hour as follows:

A -----	3	D -----	0
B -----	2	E -----	minus 1
C -----	1	F -----	minus 2

These values are applied to all courses (military and physical education excepted) in all institutions attended. The value of minus 1 applies to a grade of E whether this grade is subsequently changed to a passing grade or to a failure. When grades are expressed in a system different from the one used at West Virginia University, the values will be adjusted to give an equivalent measure of accomplishment.

#### 6. Medical Aptitude Test

Applicants are required to take the aptitude test approved by the Association of American Medical Colleges, given annually in all colleges preparing students for the study of medicine. The rating in this test will be considered in determining the fitness of the applicant.

#### 7. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Entrance considers such readmissions justified.

#### 8. Age

Applicants must be at least 18 years of age at the time of entrance to the Medical School.

#### 9. Residence

Preference is given to residents of West Virginia. Non-residents will be considered only after all eligible residents have been admitted.

#### 10. Subject Requirements for Admission

All applicants must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college.

### SECONDARY-SCHOOL CREDITS REQUIRED

**Secondary-School Unit.** A unit in any subject represents the amount of work that may be done in a standard high school in a year of 36 weeks, with five recitations each week of no less than 40 minutes each. In courses where laboratory work is required, from two to three hours of laboratory work are considered the equivalent of one hour of recitation, according to the amount of outside preparation required in connection with such work.

For admission to the School of Medicine the applicant must have credit for 15 units of high-school work, as follows:

1. English .....	4 units*
2. A second subject .....	3 units
3. Mathematics .....	
Algebra .....	1 unit
Plane geometry .....	1 unit
4. One other subject .....	2 units
5. Other subjects .....	4 units

The School of Medicine strongly urges that applicants offer two units of Latin.

### COLLEGE CREDITS REQUIRED

In addition to the high-school requirements, applicants must have credit for at least three years' work in a college of recognized standing. This must include 90 semester hours, exclusive of military science and physical education.

Preference is given to applicants whose pre-medical collegiate work was taken in approved colleges of arts and sciences or junior colleges included in the list published by the Council on Medical Education and Hospitals of the American Medical Association.

**College Credit.** A college credit or semester hour represents the amount of work done in one semester in one recitation hour, with two preparation hours a week. From two to three hours of laboratory work are considered equivalent to one hour of recitation, according to the amount of outside work assigned in connection with the laboratory hour.

The following subjects and hours are the minimum requirements for admission. They must be met in full:

English composition and rhetoric .....	6 hours
Physics .....	8 hours
Biological sciences .....	12 hours
(Should be mainly zoology and should include comparative anatomy of the vertebrates.)	
Chemistry .....	20 hours
(Six hours must be organic chemistry)	
Psychology .....	3 hours
A modern foreign language .....	12 hours
(German or French preferred.)	

Electives to meet the required number of hours.

Applicants who have not had Latin in high school are urged to take a year of Latin in college.

As electives the following subjects are suggested: Botany, economics, genetics, history, sociology; advanced work in English composition, chemistry, physics, psychology, and zoology. It should be the aim of the student to gain a broad education, containing much training of general importance, rather than to confine his efforts to the required pre-medical sciences. It is not wise to elect subjects that are in any sense a duplication of subject matter given in the medical-school curriculum.

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\*Students who present only 3 units of English for entrance are required to take 6 hours of college English in addition to the minimum number of hours in that subject required for their degree.



The 12 hours of modern language must be taken in one language. Applicants who have had two units in high school may satisfy the requirement by taking 6 hours of advanced college work in the same language.

## REGISTRATION

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each semester. Students will register for the year 1941-42, first semester, on Tuesday and Wednesday, September 16 and 17, 1941; and second semester, on Tuesday and Wednesday, February 3 and 4, 1942.

No student will be permitted to register in the School of Medicine after the first week of classes.

## DEPARTURE FROM SCHEDULED WORK

Students must register for all the prescribed courses for each semester, except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the registrar for record.

## FEES

All fees are due and payable at the office of the Financial Secretary on the day of registration.<sup>1</sup> Students registering in the School of Medicine pay the following:

### ADVANCE DEPOSIT FEE

Each student is required to make a deposit of \$25 before his name is entered upon the official list for registration in the School of Medicine. If the student enrolls in the School of Medicine this sum is applied to the tuition of the first semester. In the event of the failure of the student to enter the School of Medicine this deposit fee is forfeited.

### TUITION AND OTHER FEES

	<i>Resident</i> <sup>3</sup>	<i>Non-Resident</i> <sup>3</sup>
Full time students <sup>2</sup> (per semester) Tuition -----	\$87.00	\$162.00
University Fees -----	40.00	40.00
<b>Total</b> -----	<b>\$127.00</b>	<b>\$202.00</b>
Part-time students (per semester hour) <sup>4</sup> -----	\$ 8.00	\$ 12.50

<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the registrar shall notify their instructors that their class cards are to be withdrawn.

## SPECIAL FEES

Late registration <sup>5</sup> .....	\$ 2.00
Diploma fee <sup>6</sup> .....	10.00
Student's record fee <sup>7</sup> .....	1.00
Breakage deposit .....	10.00

## REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University:

### *Amount of Refund*

During the first and second weeks.....	All fees less \$2.50
During the third and fourth weeks.....	80% of fees
During the fifth and sixth weeks.....	60% of fees
During the seventh and eighth weeks.....	40% of fees
Beginning with ninth week.....	No refunds allowed

<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during each semester of the regular academic year. A full-time student receives a student activity book, which entitles him to admission to all out-door athletic events and, by the payment of an additional amount at each event, entitles him to admission to all in-door athletic events held in the Field House. He is entitled also to free medical consultation and advice from the University physician. A moderate charge is made for room calls, x-rays, special laboratory tests, drugs furnished by the University Pharmacy, minor operations, treatment of fractures and dislocations, and intravenous treatment.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicile in this state, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>4</sup>A part-time student is one who is registered for fewer than 10 semester hours per semester during the regular academic year.

<sup>5</sup>As a reward for prompt registration, this fee is not charged to students who procure class cards during the regular registration days set forth in the calendar on page 3.

<sup>6</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

## STANDARDS OF SCHOLARSHIP

### GRADING AND HONOR POINTS

- A—Excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above the average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—condition<sup>1</sup>
- F—failure
- FIW—failure because of irregular withdrawal
- I—incomplete<sup>2</sup>
- W—all withdrawals prior to mid-semester
- WF—withdrew failing subsequent to mid-semester
- WP—withdrew passing subsequent to mid-semester

The quality of a student's work shall be expressed in honor points, which are based only on grades earned in West Virginia University. All courses taken in this institution which are offered toward credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of 1 honor point per credit-hour to be eligible for graduation.

### REMOVAL OF CONDITIONS

Examinations for the removal of conditions incurred during the first semester will be held during the week following Easter vacation. Examinations for conditions incurred during the second semester of the first year will be held during the first day of registration in September, in order that eligibility of students to enter the second year may be determined.

Examinations for the removal of conditions incurred during the second semester of the second year will be held at dates determined by agreement between the instructor concerned and the Scholarship Committee.

Before these dates those wishing to take the examinations should make application to the professor concerned and take to him the "condition removal" card obtained from the dean's office.

### PROMOTIONS AND SUSPENSIONS

Any student who fails to make passing marks in courses amounting to at least one-half of the total number of hours regularly scheduled for any semester is suspended indefinitely.

No student will be permitted to take any work of the second year until all work of the first semester of the first year has been successfully completed.

No student who has aggregate failures for the second semester of the first year of as much as 5 hours will be allowed to take any work of the second year until such deficiency is removed.

A student who during his first year does not make a grade of C or higher in at least half the scheduled credit hours for the year may not register for second-year courses except by special permission of the Scholarship Committee.

### WITHDRAWALS

A student who wishes to withdraw from the School of Medicine during the semester must first obtain from the dean's office a blank on which his instructors may enter the charges against his breakage deposit. He will then obtain a withdrawal card from the Registrar to be signed by the Dean of the Medical School. The student must present this card and his tuition receipt

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<sup>1</sup>A mark of "E" not removed at the time specified for taking the examination becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a C shall be recorded for the removal of a condition.

<sup>2</sup>If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

to the Registrar for endorsement and finally present to the Financial Secretary the endorsed receipt together with the unused part of his student activity book, for refunding of fees.

Students who withdraw from the University without permission will at the end of the semester receive a grade of "F" in each of the subjects for which they are registered and will be indefinitely suspended from the University. Students may not withdraw from the University or from any of the classes for which they are enrolled in the last two weeks of the semester.

## **REQUIREMENTS FOR DEGREES**

The School of Medicine gives no degrees in medicine, inasmuch as only the first two years of medicine are given. It, however, cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree, upon the completion of the two years of medical work, to those students who comply with certain requirements of the College of Arts and Sciences.

A suggested curriculum for pre-medical students is given in the **Catalogue** of the University and in the **Bulletin** of the College of Arts and Sciences.

## THE MEDICAL CURRICULUM

The following courses and hours are required of all medical students. The length of the semester is 17 weeks including the final examination periods.

### THE SCHEDULE OF COURSES

COURSES	Hours Per Week			Hours Per Semester			Semester Hours of Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total	
FIRST YEAR—FIRST SEMESTER							
Gross Anatomy 201 .....	2	12	14	34	204	238	7
Histology 201 .....	2	7	9	34	119	153	5
Biochemistry 201 .....	3	9	12	51	153	204	6
FIRST YEAR—SECOND SEMESTER							
Bacteriology 202 .....	2	8	10	34	136	170	5
Embryology 202 (1st half sem.)	4	7	11	34	59	93	3
Neurology 203 (2nd half sem.)	4	7	11	34	59	93	3
Gross Anatomy 202 .....	1	8	9	17	136	153	4
Physiology 202 .....	2	3	5	34	51	85	3
SECOND YEAR—FIRST SEMESTER							
Pathology 201 .....	5	11	16	85	187	272	8
Physiology 203 .....	5	6	11	85	102	187	7
Pharmacology 202 .....	3	---	3	51	---	51	3
Public Hygiene 203 .....	2	---	2	34	---	34	2
SECOND YEAR—FIRST HALF OF SECOND SEMESTER							
Pharmacology 203 .....	5	9	14	42	76	118	4*
Applied Anatomy 204 .....	2	6	8	17	51	68	2*
Obstetrics 201 .....	4	---	4	34	---	34	2*
History of Medicine 203 .....	1	---	1	8	---	8	0*
Clinical Pathology 203 .....	1	2	3	8	17	25	†
Physical Diagnosis 201 .....	2	2	4	17	17	34	†
Medicine 202 .....	1	---	1	8	---	8	†
Surgery 201 .....	2	---	2	17	---	17	†
*Course completed at mid-semester. †Course continues throughout the semester.							
SECOND YEAR—SECOND HALF OF SECOND SEMESTER							
Clinical Pathology 203 (Cont.)	1	10	11	8	85	93	3
Physical Diagnosis 201 (Cont.)	2	2	4	17	17	34	3
Medicine 202 (Cont.) .....	3	2	5	25	17	42	2
Surgery 201 (Cont.) .....	3	2	5	25	17	42	3
Special Pathology 202 .....	---	5	5	---	42	42	1

\*Course completed at mid-semester.

†Course continues throughout the semester.

## DAY AND HOUR SCHEDULE

## FIRST YEAR—FIRST SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M	Biochemistry 201				*	Anatomy 201				*		
T	Histology 201				*	Anatomy 201				*		
W	Biochemistry 201				*	*						
Th	Histology 201				*	Anatomy 201				*		
F	Biochemistry 201				*	Histol 201	Anatomy 201				*	
S	*	Anatomy 201			*							

## FIRST YEAR—SECOND SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M		Embryology 202 Neurology 203			*			Anatomy 202			*	
T		Bact. 202	Physiol. 202	Bacteriol. 202	*			Physiology 202			*	
W		Embryol. 202 Neurol. 203		Bacteriol. 202	*			Anatomy 202			*	
Th		Emb. 202 Neur. 203	Physiol. 202	Bacteriol. 202	*			Embryology 202 Neurology 203			*	
F		Emb. 202 Neur. 203	Bacteriology 202			*		Anatomy 202			*	

## SECOND YEAR—FIRST SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M		*	Physiol. 203	Pathol. 201	Pharm. 202	*		Pathology 201				
T		*	Physiol. 203	Pathol. 201	Hygiene 203	*		Physiology 203			*	
W		Pharm. 202	Physiol. 203	Pathol. 201	*	*		Pathology 201				
Th		*	Physiol. 203	Pathol. 201	Hygiene 203	*		Physiology 203			*	
F		*	Physiol. 203	Pathol. 201	Pharm. 202	*		Pathology 201				

\*Vacant period.

## SECOND YEAR—SECOND SEMESTER—FIRST HALF

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M	Pharm. 203	Phys. D. 201	Obstet. 201	Surg. 201		*		Pharmacology 203				*
T	Pharm. 203	Anat. 204	Obstet. 201	Hist. Med. 203		*		Anatomy 204				*
W	Pharm. 203	Phys. D. 201	Obstet. 201	Surg. 201		*		Pharmacology 203				*
Th	Pharm. 203	Anat. 204	Obstet. 201	Pathol. 203		*		Anatomy 204				*
F	Phys. Diag. 201		Med. 202	Pharm. 203		*		Pharmacology 203				*
S	*		Pathol. 203	*								

## SECOND YEAR—SECOND SEMESTER—SECOND HALF

	8	9	10	11	12	2	3	4	5
M	*	Medicine 202 or Surgery 201		Surg. 201	*	Med. 202	Pathology 203		
T	Pathology 203			Surg. 201	*	Phys. D. 201	Pathology 202		
W	*	Medicine 202 or Surgerv 201		Surg. 201	*	Med. 202	Pathology 203		
Th	Pathology 202 or Medicine 202			*	*	Phys. D. 201	Pathology 203		
F	Physical Diag. 201		*	*	*	Med. 202	Pathology 203		
S	*	Pathology 202 or Medicine 202		*					

During this half of the semester all students, in small groups, spend a week in a hospital clerkship at the Hopemont Sanitarium.

## COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses at West Virginia University is as follows:

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

- I— a course offered during the first semester
- II— a course offered during the second semester
- I, II— a semester course offered each semester
- Yr.— a continuous course extending through two semesters
- PR:— prerequisite
- Hrs.— Number of credit hours per course.

NOTE—Courses marked "I" are required of first-year students; those marked "II" are required of second-year students.

In addition to the required courses there are listed some elective courses. These are for the benefit of the occasional advanced student who may need them. These courses are given only when, in the opinion of the department concerned and of the dean, it is considered advisable.

On the following pages those staff members who are designated by the title "Dr." have the M. D. degree. All others, most of whom have the Ph. D. degree, are designated as "Mr." in accordance with the custom in University publications.

### GROSS ANATOMY AND NEUROLOGY

Professor CHANDLER; Assistant Professor GODWIN; Instructor SCHADEWALD

- 201.<sup>1</sup> **Gross Anatomy.** I. 7 Hrs. Lectures and recitations, 2 hours per week; laboratory, 12 hours per week. PR: Zoology; comparative anatomy desirable. Staff
- 202.<sup>1</sup> **Gross Anatomy.** II. 4 Hrs. Continuation of Anatomy 201. Lecture, 1 hour per week; laboratory, 8 hours per week. PR: Anatomy 201. Staff
- 203.<sup>1</sup> **Neurology.** II. 3 Hrs. Lectures, 4 hours per week; laboratory, 7 hours per week. Second half of semester. PR: Histology 201, Anatomy 201. Staff
- 204.<sup>2</sup> **Applied Anatomy.** II. 2 Hrs. Lectures, 2 hours per week; laboratory, 6 hours per week. First half of semester. PR: Anatomy 201 and 202, Neurology 203, and Embryology 202. Dr. Chandler
- 211. **Anatomy of the Sympathetic Nervous System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler
- 212. **Applied Anatomy of the Pelvis and Perineum.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Staff
- 381. **Advanced Anatomy.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler



## HISTOLOGY AND EMBRYOLOGY

Professor DODDS; Assistant Professor GODWIN

- 201.<sup>1</sup> **Histology.** I. 5 Hrs. Lectures, 2 hours per week; laboratory, 7 hours per week. PR: Zoology, Anatomy 201 or acceptable substitute. Staff
- 202.<sup>1</sup> **Embryology.** II. 3 Hrs. Lectures, 4 hours per week; laboratory, 7 hours per week. First half of semester. PR: Histology 201 and Anatomy 201. Staff
211. **The Histology and Development of the Skeletal System.** I. or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature. Mr. Dodds
213. **Advanced Embryology.** I or II. 2-5 Hrs. With special emphasis on early stages of development. Hours to be arranged. Open to properly qualified students. Mr. Godwin
381. **Research in Microscopic or Developmental Anatomy.** I. or II or Yr. 2-5 Hrs. Hours to be arranged. Elective. Open to properly qualified students. Staff

## BIOCHEMISTRY

Associate Professor RAFFERTY; Assistant Professor MACLACHLAN

239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of both animals and plants. PR: Chemistry 31, 36, or 233. Lecture, 2 hours; laboratory, 6 hours per week. Graduate students required to do one hour additional work per week for 4 hours' credit. Staff
- 201.<sup>1</sup> **Biochemistry.** I. 6 Hrs. Lecture, 3 hours per week; laboratory, 9 hours per week. PR: inorganic and organic chemistry, quantitative analysis, and zoology. Staff
211. **Chemistry of Carbohydrates, Fats and Proteins.** I. 5 Hrs. Lecture, 2 hour per week; laboratory, 6 hours per week. PR: inorganic chemistry, organic chemistry, and qualitative analysis. Staff
212. **Chemistry of Digestion, Metabolism, and Excretion.** II. 5 Hrs. Lecture, 2 hours per week; laboratory, 6 hours per week. PR: inorganic chemistry, organic chemistry, and qualitative analysis. Staff
213. **Quantitative Method of Urine and Blood Analysis.** II. 5 Hrs. Lecture, 2 hours per week; laboratory, 6 hours per week. Open to properly qualified students. Dr. Rafferty
214. **Biochemical Preparations.** I or II. 3 Hrs. Dr. Rafferty
215. **Biochemical Preparations.** I or II. 3 Hrs. Dr. Rafferty
381. **Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students. Staff

## BACTERIOLOGY AND PUBLIC HYGIENE

Professor SPRAY; Instructor STANLEY

101. **Pathogenic Bacteriology.** I. 5 Hrs. Required of Pharmacy students. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours per week. PR: Organic chemistry. Mr. Stanley
- 202.<sup>1</sup> **Medical Bacteriology.** II. 5 Hrs. Lecture, 2 hours per week; laboratory, 8 hours per week. PR: Biochemistry 201. Staff
- 203.<sup>2</sup> **Public Hygiene.** I. 2 Hrs. Lecture, 2 hours per week. PR: Bacteriology 202. Mr. Spray
211. **Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students. Mr. Spray
381. **Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 202 or equivalent. Mr. Spray

## PHYSIOLOGY

Professor VAN LIERE; Associate Professor NORTHUP; Instructor STICKNEY

101. **Elementary Physiology.** II. 4 Hrs. For pharmacy students. Lecture, 3 hours per week; laboratory, 3 hours per week.  
Mr. Northup and Mr. Stickney
- 202.<sup>1</sup> **Physiology.** II. 3 Hrs. Physiology of muscle and nervous system. Lecture, 2 hours per week; laboratory 3 hours per week. PR: Biochemistry 201 and Histology 201. Staff
- 203.<sup>2</sup> **Physiology.** I. 7 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours per week. PR: Physiology 202; Anatomy 201 and 202, and Neurology 202. Staff
211. **Seminar in Physiology.** Yr. No credit Staff
212. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged. Dr. Van Liere
213. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged. Dr. Van Liere
214. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged. Mr. Northup
381. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the Master of Science degree. Staff

## PATHOLOGY

Professor FENTON; Assistant Professor DEANGELIS

- 201.<sup>2</sup> **General and Tumor Pathology.** I. 8 Hrs. Lecture, 5 hours per week; laboratory, 11 hours per week. Demonstrations. PR: Biochemistry 201. Physiology 202, Anatomy 201 and 202, and Bacteriology 201. Staff
- 202.<sup>2</sup> **Special Pathology.** II. 1 Hr. Second half of semester: Lecture, 1 hr. per week; laboratory, 4 hrs. per week. A study of special diseases, with gross and microscopic specimens from selected autopsies. Staff
- 203.<sup>2</sup> **Clinical Pathology.** II. 3 Hrs. A laboratory course in blood, gastric contents, etc., and their pathological and clinical significance. Lecture, 1 hour per week throughout the semester; laboratory, first half of semester, 2 hours per week; second half, 10 hours per week. Staff
211. **Pathology (Special).** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 201. Staff
381. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Fenton

## PHARMACOLOGY

Associate Professor EMERSON; Instructor MORRISON; Lecturer TUCKER

- 202.<sup>2</sup> **Medical Pharmacology.** I. 3 Hrs. Lecture, 3 hours per week. PR: Physiology 202. Mr. Emerson
- 203.<sup>2</sup> **Medical Pharmacology and Pharmacodynamics.** II. 4 Hrs. First half of the semester: lecture, 5 hours per week; laboratory, 9 hours per week. PR: Pharmacology 202. Staff
211. **Biochemorphology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 202, or Chemistry 233 and 239. Staff
212. **Bioassay and Comparative Pharmacology.** I and II. 3 Hrs. Lectures and demonstrations, 2 hours per week; laboratory, 3 hours per week. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 202; or Chemistry 233 or 239 and Histology 201, or Pharmacy 110. Staff

213. **Introductory Therapeutics.** II. 1 Hr. Lecture, 2 hours per week. Second half of semester. PR: Pharmacology 202. Mr. Emerson
214. **Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week, laboratory, 3 hours per week. PR: Physiology 202. Staff
381. **Research in Pharmacology.** I and II. 2-5 Hrs. Hours to be arranged. PR: Graduate status in physiology, chemistry, or agriculture. Mr. Emerson

### MEDICINE

Associate Professor WHITTLESEY,\* Assistant Professors MAXWELL and SUMMERS;  
Instructors CADDEN and SALKIN; Lecturer SIMPSON

- 201.<sup>2</sup> **Physical Diagnosis.** II. 3 Hrs. First half of semester: lecture, 2 hours per week; laboratory, 2 hours per week; second half of semester: lecture, 2 hours per week; practical work with patients, 2 hours per week. Hospital clerkship at Hopemont Sanitarium one week. Staff
- 202.<sup>2</sup> **Medicine.** II. 2 Hrs. First semester: demonstration of clinical cases, 1 hour per week. Second semester, first half: lecture, 1 hour per week; second half: lecture, 3 hours per week, demonstration of clinical cases 2 hours per week. Medical problems are also considered in the clerkship at Hopemont Sanitarium. Staff
- 203.<sup>2</sup> **History of Medicine.** II. No Cr. A brief history of the development of medicine. Dr. Simpson

### INTRODUCTORY SURGERY

Assistant Professor PRIDE

- 201.<sup>2</sup> **Principles of Surgery.** II. 3 Hrs. First half of semester: lecture, 2 hours per week; second half of semester: lecture, 3 hours per week; demonstrations of clinical cases and operative technique, 2 hours per week. PR: Anatomy 201 and 202. Applied Anatomy to be taken concurrently.

### OBSTETRICS

Professor VAN LIERE

- 201.<sup>2</sup> **Obstetrics.** II. 2 Hrs. An introductory course in obstetrics. First half of semester: lecture, 4 hours per week. PR: Anatomy 201 and 202, Physiology 202 and 203 and Pathology 201.

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\* Resigned September 1, 1940.

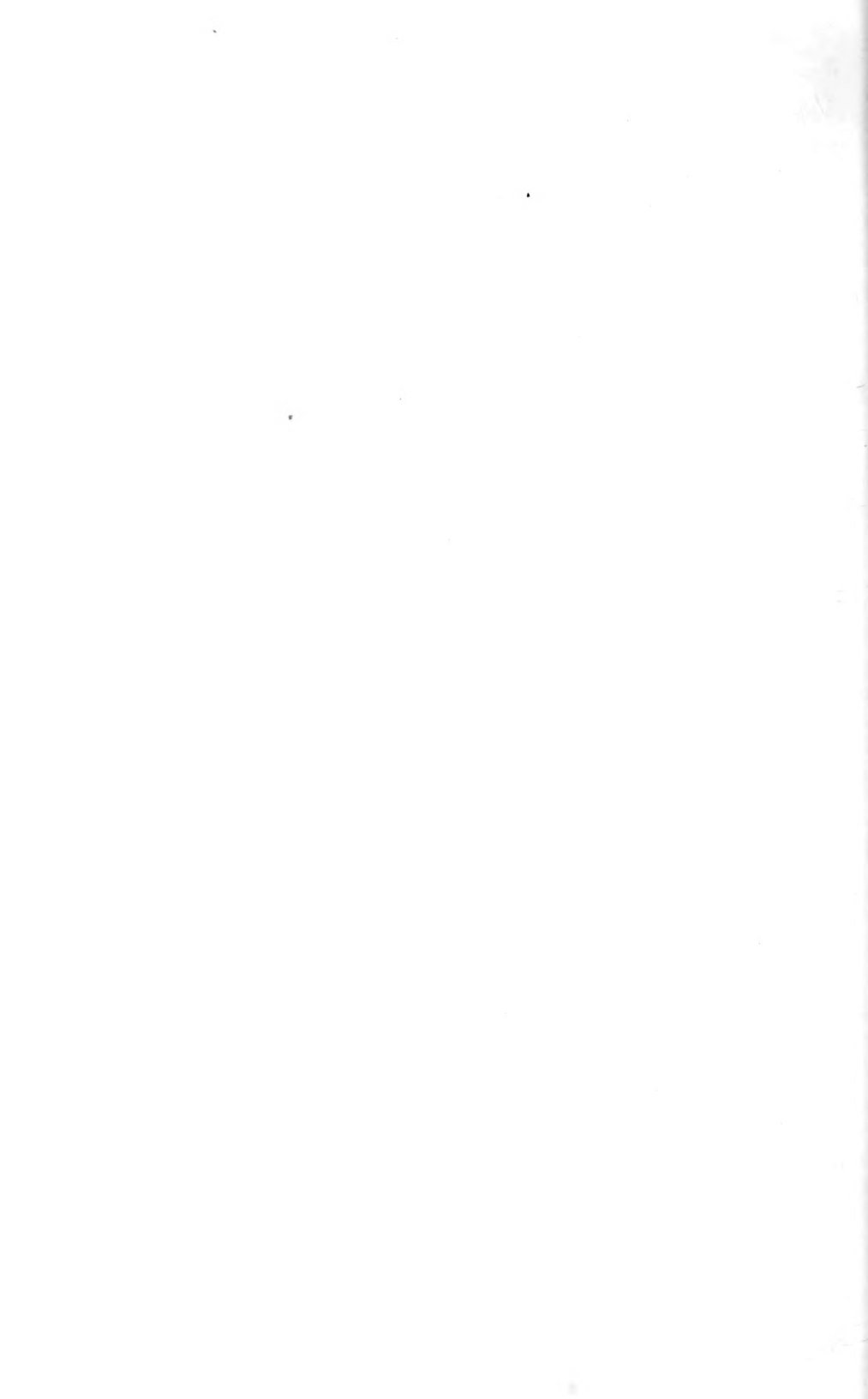
## THE LIST OF STUDENTS, 1940-41

### SECOND-YEAR STUDENTS IN THE SCHOOL OF MEDICINE

APPLEBY, GEORGE STEPHEN .....	Martinsburg
A. B., West Virginia University, 1939	
BERRY, ROBERT ZINN .....	Flatwoods
A. B., West Virginia University, 1939	
CASHMAN, HAROLD HARDERN .....	Morgantown
A. B., West Virginia University, 1940	
COCHRAN, ROBERT BRADY .....	New Cumberland
A. B., West Virginia University, 1939	
CRITES, JOHN LEE .....	Charleston
A. B., Denison University, 1939	
DAVIS, DEL ROY RICHARD .....	Kingwood
A. B., West Virginia University, 1940	
EAKLE, HOY ELDRIDGE .....	Tesla
FLEMING, ROBERT JOSEPH .....	Morgantown
A. B., West Virginia University, 1940	
GLENN, WALTER JUSTIS, JR. ....	Fairmont
A. B., Fairmont State Teachers College, 1936	
A. M., University of Michigan, 1937	
HAMILTON, ROBERT BURKE .....	Fairmont
A. B., West Virginia University, 1939	
HASSIG, DONALD GRAE .....	Paden City
B. S., Bethany College, 1938	
LEE, FERDINAND WAYNE .....	Morgantown
A. B., West Virginia University, 1940	
LILLY, MILTON JUDSON .....	Frazier's Bottom
B. S., Marshall College, 1939	
MILES, HOWARD CARSON .....	Huntington
B. S., Marshall College, 1940	
MORRIS, JOHN DAVID .....	Morgantown
A. B., West Virginia University, 1940	
PORTNOFF, CLIFTON LEW .....	White Sulphur Springs
A. B., West Virginia University, 1940	
ROGERS, ROBERT ARNOLD .....	Keyser
A. B., West Virginia University, 1940	
SHEIN, MELVIN .....	Williamson
A. B., Berea College, 1939	
VAUPEL, GEORGE EALY .....	Moundsville
B. S., Bethany College, 1939	

# **FIRST-YEAR STUDENTS IN THE SCHOOL OF MEDICINE**

ANDERSON, RICHARD CLARK .....	Morgantown
A. B., West Virginia University, 1940	
CARR, JOEL FOSTER .....	Princeton
A. B., West Virginia University, 1940	
COFFIELD, OLAN TERRELL .....	Morgantown
A. B., West Virginia University, 1940	
CUMMINGS, MELVILLE HOMER, JR. ....	Williamstown
DRAPER, HARRY RICHARD, JR. ....	Rainelle
ECKLEY, GEORGE MORGAN, JR. ....	Beckley
FOLEY, MARY JANE .....	Clarksburg
HALL, JACK HEROD .....	Morgantown
HERTZOG, JACK MCKINLEY .....	Manheim
HOGSHED, RALPH, JR. ....	Montgomery
HORNBROOK, FRANCIS EUGENE .....	New Martinsville
HUNTER, JACK WILLIAM .....	Buckhannon
B. S., West Virginia Wesleyan College, 1935	
HUTCHINSON, BERNARD MEARNES .....	Sutton
A. B., West Virginia University, 1933	
LEONARD, CHARLES LEE .....	Beverly
LEONARD, JAMES BERNARD .....	Parkersburg
A. B., Marietta College, 1940	
LOWE, JACKSON TANNER .....	Beckley
McCULLOUGH, EDISON WOODROW .....	St. Mary's
A. B., West Virginia University, 1940	
MILLS, WOODROW WILSON .....	Kenova
A. B., Marshall College, 1933	
MOORE, JAMES RUSSELL, JR. ....	Spencer
B. S., Marshall College, 1940	
MULLENS, HENRY SCOTT .....	Wayne
QUICK, JAMES CHILTON .....	Clendenin
RICE, WILLIAM RUFUS .....	Dunbar
ROBERTS, CARL JAMES .....	Shinnston
A. B., West Virginia University, 1940	
SLAUGHTER, JAMES FLOYD .....	Charleston
VEST, JAMES CHRISTOPHER .....	Whitesville
WARDEN, JACOB GARVIN .....	Wardensville









*Edward J. Van Rens*

# West Virginia University Bulletin

Series 42, No. 6-11

December, 1941

## Announcements

### THE SCHOOL OF MEDICINE

#### The 1942-43 Session



MORGANTOWN, WEST VIRGINIA  
Published by the University

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Morgantown, West Virginia, under the Act of August 24, 1912

Issued Monthly



# Year 1942

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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# Year 1943

JANUARY							FEBRUARY							MARCH							APRIL						
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MAY							JUNE							JULY							AUGUST						
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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26	27	28	29	30			24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	

# The University Calendar

1942

May 16, Saturday-----Alumni Day  
May 17, Sunday-----Baccalaureate exercises  
May 18, Monday-----Commencement Day  
June 8, Monday-----Registration for first term, Summer Session  
June 9, Tuesday-----First recitations, Summer Session  
July 4, Saturday-----Independence Day, a holiday  
July 17, Friday-----Close of first term, Summer Session  
July 20, Monday-----Registration for second term, Summer Session  
July 21, Tuesday-----First recitations of second term, Summer Session  
August 28, Friday-----Close of Summer Session  
September 14, and 15, Monday and Tuesday-----Registration for first semester  
September 16, Wednesday-----First recitations of first semester  
November 19, Thursday-----Mid-semester reports due  
November 26, Thursday, to November 29, Sunday, inclusive, Thanksgiving recess  
December 20, Sunday, to January 3, Sunday, inclusive-----Christmas recess

1943

January 23, Saturday, to January 30, Saturday, inclusive,  
Final examinations for first semester  
February 2 and 3, Tuesday and Wednesday-----Registration for second semester  
February 4, Thursday-----First recitations of second semester  
April 7, Wednesday-----Mid-semester reports due  
April 22, Thursday, to April 27, Tuesday, inclusive-----Easter recess  
May 26, Wednesday, to June 3, Thursday, inclusive,  
Final examinations for second semester  
May 31, Monday (For May 30, Sunday)-----Memorial Day, a holiday  
June 5, Saturday-----Alumni Day  
June 6, Sunday-----Baccalaureate exercises  
June 7, Monday-----Commencement Day

The University Calendar is subject to change without notice.

SCHEDULE SUBJECT TO CHANGE WITHOUT NOTICE

# West Virginia University

## Morgantown

Established February 7, 1867

### The West Virginia Board of Control

	TERM EXPIRES
WILLIAM S. WYSONG, PRESIDENT, <i>Webster Springs</i> .....	June 30, 1945
GROVER C. ROBERTSON, SECRETARY, <i>Charleston</i> .....	June 30, 1943
WILLIAM C. COOK, TREASURER, <i>Welch</i> .....	June 30, 1945

The West Virginia Board of Control has the direction of the financial and business affairs of the state educational institutions.

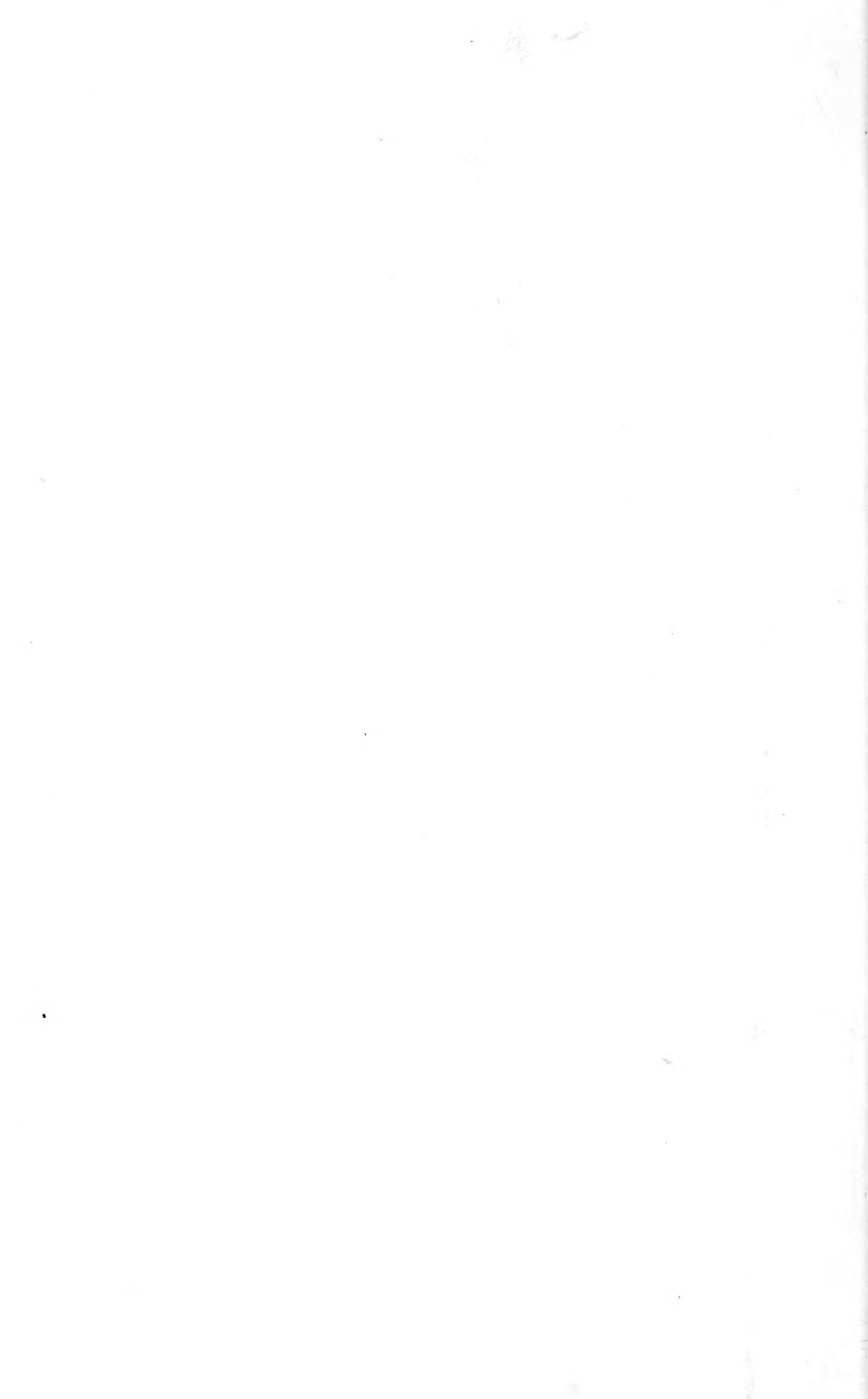
### The Board of Governors

	TERM EXPIRES
ARTHUR BURKE KOONTZ, PRESIDENT, <i>Charleston</i> .....	June 30, 1944
JOHN DEMPSEY HOBLITZELL, JR., VICE-PRESIDENT, <i>Parkersburg</i> , .....	June 30, 1945
AUSTIN V. WOOD, <i>Wheeling</i> .....	June 30, 1942
HARRIET LOUISE FRENCH, <i>Bluefield</i> .....	June 30, 1941
FREDERICK FRELINGHUYSEN McINTOSH, Jr., <i>Spencer</i> .....	June 30, 1945
HERBERT CHESTER GREER, <i>Morgantown</i> .....	June 30, 1944
ROBERT HOWARD PRITCHARD, <i>Weston</i> .....	June 30, 1942
CHARLES THOMPSON NEFF, Jr., SECRETARY, <i>Morgantown</i>	

The Board of Governors has charge of the educational and administrative affairs of the University.



MORGANTOWN PRINTING & BINDING COMPANY



# THE SCHOOL OF MEDICINE

## ADMINISTRATION

CHARLES ELMER LAWALL, E. M., M. S., LL. D., *President of the University.*

EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Dean*

## THE FACULTY

### Emeritus

JOHN NATHAN SIMPSON, A. B., M. D., F. A. C. P., *Dean Emeritus.*

### Professors

✓ EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Professor of Physiology.*

✓ GIDEON STANHOPE DODDS, B. A., M. A., PH. D., *Professor of Histology and Embryology.*

CLEMENT COLEMAN FENTON, A. B., B. S., M. S., M. D., F. A. C. P., *Professor of Pathology and Clinical Pathology.*

ROBB SPALDING SPRAY, B. S., M. S., PH. D., *Professor of Bacteriology and Public Hygiene.*

SIMON B. CHANDLER, A. B., A. M., M. D., *Professor of Gross Anatomy and Neurology.*

### Associate Professors

GEORGE ALBERT EMERSON, A. B., M. S., PH. D., *Associate Professor of Pharmacology.*

DAVID WILMARTH NORTHUP, A. B., A. M., PH. D., *Associate Professor of Physiology.*

PERCIVAL LLOYD MACLACHLAN, B. A., PH. D., *Associate Professor of Biochemistry.*

CECIL BENJAMIN PRIDE, A. B., M. D., F. A. C. S., *Associate Professor of Surgery.*

### Assistant Professors

GEORGE RALPH MAXWELL, B. S., M. D., F. A. C. P., *Assistant Professor of Physical Diagnosis.*

ROY ROOSEVELT SUMMERS, B. S., M. D., *Assistant Professor of Physical Diagnosis.*

EUGENE DEANGELIS, B. S., M. B., M. D., *Assistant Professor of Pathology.*

MELVIN CRAWFORD GODWIN, A. B., PH. D., *Assistant Professor of Histology and Anatomy.*

CLARK KENDALL SLEETH, A. B., B. S., M. D., *Assistant Professor of Physical Diagnosis.*

FREDERICK RENDELL WHITTLESEY, A. B., M. D., F. A. C. P., *Assistant Professor of Medicine.*

### Instructors

ALFRED REEVES STANLEY, A. B., M. S., PH. D., *Instructor in Bacteriology.*

DAVID SALKIN, M. D., F. A. C. P., *Instructor in Medicine (Physical Diagnosis).*

MELVIN SCHADEWALD, B. S., M. S., *Instructor in Anatomy.*

JOHN CLIFFORD STICKNEY, B. S., M. S., PH. D., *Instructor in Physiology.*

JAMES L. MORRISON, A. B., M. A., PH. D., *Instructor in Pharmacology.*

LEMUEL D. WRIGHT, B. S., M. S., PH. D., *Instructor in Biochemistry.*

CARL EDWARD JOHNSON, A. B., B. S., M. D., *Instructor in Medicine.*

REGINALD CAMPBELL EDSON, A. B., M. D., *Instructor in Medicine (Physical Diagnosis).*

ARCHIE LEMUEL STARKEY, B. S., M. D., *Instructor in Medicine (Physical Diagnosis).*

### Lecturer

ELDON BRYANT TUCKER, B. S., M. D., *Lecturer in Pharmacology (Anesthesiology).*

## Technicians

FABRY LIVINGSTON HAWK, Reg. Med. Technologist, *Technician in Pathology.*  
 AILON BUFORD LINGAR, A. B., *Technician in University Health Service.*  
 DAVID SAMUEL BARRICKMAN, B. S., M. S., *Technician in Anatomy and Histology.*  
 ROBERT DEWITT PECK, *Technician in Biochemistry.*

## Clerical

FLORENCE ELLIOTT WEAVER, *Secretary.*  
 LOUISE WOODHULL GROW, A. B., *Assistant Secretary and Record Clerk.*

## UNIVERSITY HEALTH SERVICE

### Physicians

ROY ROOSEVELT SUMMERS, B. S., M. D., *Director and Physician.*  
 SAMUEL JOHN MORRIS, M. D., *Physician and Medical Adviser to the Department of Athletics.*  
 CLARK KENDALL SLEETH, A. B., B. S., M. D., *Physician.*

### Nurses

MABEL M. LOVE, R. N., *Nurse in the University Health Service.*  
 ETHEL FEATHER, *Nurse in the University Health Service.*  
 MARIE HADDOCK, R. N., *Nurse in the University Health Service.*

## STANDING COMMITTEES

### Executive Committee

EDWARD J. VAN LIERE, *Chairman*  
 G. S. DODDS C. B. PRIDE  
 F. R. WHITTLESEY

### Committee on Entrance and Scholarship

G. S. DODDS, *Chairman*  
 S. B. CHANDLER C. C. FENTON  
 G. A. EMERSON P. L. MACLACHLAN

### Committee on Library

S. B. CHANDLER, *Chairman*  
 G. S. DODDS ~~C. K. SLEETH~~  
 G. A. EMERSON P. L. MACLACHLAN

### Committee on Research

EDWARD J. VAN LIERE, *Chairman*  
 R. S. SPRAY G. A. EMERSON  
 M. C. GODWIN D. W. NORTHUP

### Committee on Seminars

C. C. FENTON, *Chairman*  
 E. DEANGELIS J. C. STICKNEY  
 G. S. DODDS S. B. CHANDLER

### Committee on Clinical and Special Facilities

C. B. PRIDE, *Chairman*  
 C. C. FENTON C. K. SLEETH  
 G. R. MAXWELL F. R. WHITTLESEY



## GENERAL INFORMATION

### Instruction in Medicine

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

Only the first two years of medicine are given in West Virginia University. The School has no affiliations with any other Medical School. Upon the satisfactory completion of the two years given, students may transfer to various other medical schools to complete their medical education.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### Buildings and Equipment

#### THE MEDICAL BUILDING, LABORATORIES, AND CLASSROOMS

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in a separate building.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center: a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

#### LIBRARY

The Medical Library is not organized as a separate unit but is housed in the University Library Building, where publications of prime importance to the students and faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building, which is closely adjacent to the Library Building. Additional current issues of

essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 13,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with the pre-clinical fields for the most part but comprising also the better representative works in internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and the history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, the Library of Congress, or other libraries. Complete sets of various abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library, and a member of the Staff also represents the School of Medicine on the general Library Committee of the University.

## Living Accommodations

The University maintains two large dormitories, one for men and one for women. Cost of room and board in the dormitory for men ranges from \$270 to \$325 per year; in the dormitory for women, from \$287 to \$325 per year. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Director of Residences and Commons, West Virginia University, Morgantown.

Medical students, in the main, must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For further information concerning houses on the approved list, men should address the office of Mr. H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University.

## Cost of a Year's Work

Textbooks and supplies will cost about \$50 to \$75 a year. Registration fees for residents are \$254; for non-residents, \$404 a year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month term for medical students in residence will range from \$700 to \$900, exclusive of traveling expenses.

## The University Health Service

The University Health Service, which is a part of the organization of the School of Medicine, is maintained to provide medical service to the students of the University and to supervise the general health conditions on the campus. The staff includes three physicians, three nurses, and a laboratory technician. The University Pharmacy, where students may secure medicine, is managed by the College of Pharmacy. The Departments of Pathology and Bacteriology cooperate in the laboratory examination of diagnostic materials.

Each regularly enrolled University student pays a fee which provides for medical consultation and advice from the University Physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, minor operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. Hospital insurance is included in the student's medical fees. This service covers the cost of routine hospital care in the local hospitals for an aggregate of thirty days in each school year. This insurance does not cover professional fees which might arise in connection with such hospitalization. When a student enters the University for the first time, he receives a complete physical examination, which includes a blood test, urine analysis, and tuberculin test. The Health Service also gives special physical examinations to students in competitive athletics, to University food handlers, to employees of buildings and grounds, and to other groups as occasion may arise.

During the year 1941 there was constructed a new and well-designed University Health Center for the better housing of the Health Service. This three-story building is centrally located on the campus fronting on University Avenue adjacent to Reynolds Hall. It is a T-shaped structure of brick and concrete, with a front width of 88 feet and a depth of 68 feet.

On the first floor are the receiving room; the office of the secretary; offices for three physicians; a room for minor surgery; rooms for treatments and for the various forms of physiotherapy; a room for basal metabolism readings and electro-cardiograms; and a consultation and reading room for physicians. One room on this floor is assigned to the University Pharmacy for the dispensing of drugs to students.,

On the second floor is the diagnostic laboratory with adequate equipment for making tests and analyses. The X-ray equipment is housed in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor also are rooms occupied by the Department of Pathology of the School of Medicine, including a good-sized student laboratory, the pathological museum, a preparation room, a stock room, and the necessary offices and private laboratories. The members of the Department staff cooperate with the Health Service Laboratory in diagnostic work.

The third floor is designed for the hospitalization of students. It is hoped that this service will be in operation for the school year 1942-43. On the main corridor are rooms accommodating sixteen hospital beds. In the rear wing, on a private corridor, are two isolation wards with seven beds for contagious cases. This corridor has its own bath, toilet, diet kitchen, and utility room. This floor also includes a three-room suite designed to serve as living quarters for nurses.

## Clinical and Special Facilities

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine:

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the City Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia County the Department of Pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the City Hospital, the Monongalia General Hospital, and the Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

## Seminar

On alternate Friday afternoons at 4 o'clock there is held a seminar, attended by faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

## Organizations and Lectureships

### ALUMNI ASSOCIATION

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

## JOHN N. SIMPSON LECTURESHIP

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, now Dean Emeritus of the School of Medicine, giving an annual lecture by someone distinguished in medical research or practice.

## REQUIREMENTS FOR ADMISSION

The following requirements for admission conform to the standards of the Council on Medical Education and Hospitals of the American Medical Association and the Association of American Medical Colleges, but our requirements include more than the minimum standards of these organizations.

### 1. How to Apply for Admission

Applications for admission must be made upon blanks which may be obtained from the dean's office upon request. No application will be considered until the Dean's office has received a complete, official transcript of all high-school and college work, including a statement of honorable dismissal. Such records should include a statement of the courses in progress at the time of application, and the applicant should have sent to the Medical School official records of all courses subsequently completed. Applicants who previously have attended any medical school must submit also a complete transcript of all medical work, together with a letter of honorable dismissal from the last medical school attended.

It is the responsibility of the applicants (except those in residence at West Virginia University) to have all the above records forwarded to the Dean of the Medical School. After certificates have been considered by the Committee on Entrance and the credits recorded, the certificates become the property of the University and are filed permanently in the Registrar's office.

### 2. When to Apply for Admission

Applications should be made early. October is not too early to apply for the following school year beginning in September.

### 3. Date of Notification of Applicants

Every effort is made to consider applications promptly and to notify applicants as soon as possible, usually within a month, whether the answer is acceptance, rejection, or postponement of decision. Applications will be considered as long as there are vacancies.

### 4. Advance Deposit Fee

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first semester. If this fee is not received within ten days after the date of the acceptance notice, the place will be considered open to other applicants. If the applicant fails to enter the School of Medicine, this deposit is forfeited. Checks must be made payable to West Virginia University.

### 5. Residence

Preference is given to residents of West Virginia. Non-residents will be considered only after all eligible residents have been admitted.

### 6. Scholarship

The number of students that can be admitted is definitely limited. In selecting students to fill the available places, preference will be given to applicants of high scholarship. The school reserves the right to reject any applicants whose pre-medical records are unsatisfactory in quality of scholarship.

In computing average grades of students applying for admission to the School of Medicine, grades are expressed in numerical points per semester hour as follows:

A -----	3	D -----	0
B -----	2	E -----	minus 1
C -----	1	F -----	minus 2

These values are applied to all courses (military and physical education excepted) in all institutions attended. The value of minus 1 applies to a grade of E whether this grade is subsequently changed to a passing grade or to a failure. When grades are expressed in a system different from the one used at West Virginia University, the values will be adjusted to give an equivalent measure of accomplishment.

### 7. Medical Aptitude Test

Applicants are required to take the aptitude test approved by the Association of American Medical Colleges, given annually in all colleges preparing students for the study of medicine. The rating in this test will be considered in determining the fitness of the applicant.

### 8. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Entrance considers such readmissions justified.

### 9. Age

Applicants must be at least 18 years of age at the time of entrance to the Medical School.

### 10. Subject Requirements for Admission

All applicants must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college.

A detailed statement of such requirements follows:

## Secondary-School Credits Required

**Secondary-School Unit.** A unit in any subject represents the amount of work that may be done in a standard high school in a year of 36 weeks, with five recitations each week of no less than 40 minutes each. In courses where laboratory work is required, from two to three hours of laboratory work are

considered the equivalent of one hour of recitation, according to the amount of outside preparation required in connection with such work.

For admission to the School of Medicine the applicant must have credit for 15 units of high-school work, as follows:

1. English .....	4 units*
2. A second subject .....	3 units
3. Mathematics	
Algebra .....	1 unit
Plane geometry .....	1 unit
4. One other subject .....	2 units
5. Other subjects .....	4 units

The School of Medicine strongly urges that applicants offer two units of Latin.

## College Credits Required

In addition to the high-school requirements, applicants must have credit for at least three years' work in a college of recognized standing. This must include 90 semester hours, exclusive of military science and physical education.

Preference is given to applicants whose pre-medical collegiate work was taken in approved colleges of arts and sciences or junior colleges included in the list published by the Council on Medical Education and Hospitals of the American Medical Association.

**College Credit.** A college credit or semester hour represents the amount of work done in one semester in one recitation hour, with two preparation hours a week. From two to three hours of laboratory work are considered equivalent to one hour of recitation, according to the amount of outside work assigned in connection with the laboratory hour.

The following subjects and hours are the minimum requirements for admission. They must be met in full:

English composition and rhetoric .....	6 hours
Physics .....	8 hours
Biological sciences .....	12 hours
(Should be mainly zoology and should include comparative anatomy of the vertebrates.)	
Chemistry .....	20 hours
(Six hours must be organic chemistry)	
Psychology .....	3 hours
A modern foreign language .....	12 hours
(German or French preferred.)	

Electives to meet the required number of hours.

Mathematics, while not an absolute requirement, is strongly recommended. Algebra and trigonometry should be taken early enough that they may be useful in the courses in physics and chemistry.

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\*Students who present only 3 units of English for entrance are required to take 6 hours of college English in addition to the minimum number of hours in that subject required for their degree.

Applicants who have not had Latin in high school are urged to take a year of Latin in college.

As electives the following subjects are suggested: Botany, economics, genetics, history, mathematics, sociology; advanced work in English composition, chemistry, physics, psychology, and zoology. It should be the aim of the student to gain a broad education, containing much training of general importance, rather than to confine his efforts to the required pre-medical sciences. It is not wise to elect subjects that are in any sense a duplication of subject matter given in the medical-school curriculum.

A suggested curriculum for pre-medical students is given on page 18 of this Bulletin.

The 12 hours of modern language must be taken in one language. Applicants who have had two units in high school may satisfy the requirement by taking 6 hours of advanced college work in the same language.

## REGISTRATION

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each semester. Students will register for the year 1942-43, first semester, on Tuesday and Wednesday, September 15 and 16, 1942; and second semester, on Tuesday and Wednesday, February 2 and 3, 1943. ~~SCHEDULE SUBJECT TO CHANGE WITHOUT NOTICE~~

No student will be permitted to register in the School of Medicine after the first week of classes.

## Departure from Scheduled Work

Students must register for all the prescribed courses for each semester, except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## FEES

All fees are due and payable at the office of the Financial Secretary on the day of registration.<sup>1</sup> Students registering in the School of Medicine pay the following:

<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the registrar shall notify their instructors that their class cards are to be withdrawn.



## Advance Deposit Fee

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list for registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first semester. In the event of the failure of the applicant to enter the School of Medicine this deposit fee is forfeited.

## Tuition and Other Fees

	<i>Resident</i> <sup>2</sup>	<i>Non-Resident</i> <sup>2</sup>
Full time students <sup>1</sup> (per semester) Tuition.....	\$ 87.00	\$162.00
University Fees .....	40.00	40.00
<b>Total</b> .....	<b>\$127.00</b>	<b>\$202.00</b>
Part-time students (per semester hour) <sup>1</sup> .....	\$ 8.00	\$ 12.50

### SPECIAL FEES

Late registration <sup>3</sup> .....	\$ 2.00
Diploma fee <sup>4</sup> .....	10.00
Student's record fee <sup>5</sup> .....	1.00
Breakage deposit .....	10.00

### REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University:

#### *Amount of Refund*

During the first and second weeks.....	All fees less \$2.50
During the third and fourth weeks.....	80% of fees
During the fifth and sixth weeks.....	60% of fees
During the seventh and eighth weeks.....	40% of fees
Beginning with ninth week.....	No refunds allowed

<sup>1</sup>A full-time student is one who is registered for 10 or more semester hours during each semester of the regular academic year. A part-time student is one who is registered for fewer than 10 semester hours per semester during the regular academic year.

<sup>2</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicile in this state, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>3</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 3.

<sup>4</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>5</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

## STANDARDS OF SCHOLARSHIP

### Grading and Honor Points

- A—Excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above the average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—condition<sup>1</sup>
- F—failure
- FIW—failure because of irregular withdrawal
- I—incomplete<sup>2</sup>
- W—all withdrawals prior to the end of the second week following the date set for mid-semester reports.
- WP—withdraw passing after the end of the second week following the date set for mid-semester reports.
- WF—withdraw failing after the end of the second week following the date set for mid-semester reports.

The quality of a student's work shall be expressed in honor points, which are based only on grades earned in West Virginia University. All courses taken in this institution which are offered toward credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of 1 honor point per credit-hour to be eligible for graduation.

### Removal of Conditions

Examinations for the removal of conditions incurred during the first semester will be held during the week following Easter vacation. Examinations for conditions incurred during the second semester of the first year will be held during the first day of registration in September, in order that eligibility of students to enter the second year may be determined.

Examinations for the removal of conditions incurred during the second semester of the second year will be held at dates determined by agreement between the instructor concerned and the Scholarship Committee.

Before these dates students who wish to take the examinations should make application to the professor concerned and take to him the "condition removal" card obtained from the Dean's office.

### Promotions and Suspensions

Any student who fails to make passing marks in courses amounting to at least one-half of the total number of hours regularly scheduled for any semester is suspended indefinitely.

No student will be permitted to take any work of the second year until all work of the first semester of the first year has been successfully completed.

<sup>1</sup>A mark of "E" not removed at the time specified for taking the examination becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a C shall be recorded for the removal of a condition.

<sup>2</sup>If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

No student who has aggregate failures for the second semester of the first year of as much as 5 hours will be allowed to take any work of the second year until such deficiency is removed.

A student who during his first year does not make a grade of C or higher in at least half the scheduled credit hours for the year may not register for second-year courses except by special permission of the Scholarship Committee.

## **Withdrawals**

A student who wishes to withdraw from the School of Medicine during the semester must first obtain from the Dean's office a blank on which his instructors may enter the charges against his breakage deposit. He will then obtain a withdrawal card from the Registrar to be signed by the Dean of the Medical School. The student must present this card and his tuition receipt to the Registrar for endorsement and finally present to the Financial Secretary the endorsed receipt together with the unused part of his student activity book, for refunding of fees.

Students who withdraw from the University without permission will at the end of the semester receive a grade of "FIW" in each of the subjects for which they are registered and will be indefinitely suspended from the University. Students may not withdraw from the University or from any of the classes for which they are enrolled in the last two weeks of the semester.

## **REQUIREMENTS FOR DEGREES**

The School of Medicine gives no degrees in medicine, inasmuch as only the first two years of medicine are given. It, however, cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree, upon the completion of the two years of medical work, to those students who comply with certain requirements of the College of Arts and Sciences.

## **PRE-MEDICAL CURRICULA**

During recent years, many colleges of arts and sciences have been placing increasing emphasis upon adequate preparation of students for the study of medicine. This trend is in response to the rising standards for entrance and the increasing difficulty of the work in medical schools. Leaders in medical education now are practically unanimous in the view that the best background for the study of medicine is a broad collegiate education not only in the sciences but also in the humanities and the social studies. The field of medicine today not only demands a broad training of every physician but can use men of such diverse abilities that hardly any kind of pre-medical training will come amiss. There is, for example, definite usefulness for such subjects as advanced language studies and engineering courses, while higher mathematics is becoming more and more important both in the study of medicine and in certain phases of medical practice.

In keeping with the need for good pre-medical training, West Virginia University, through its pre-medical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia University to give special

pre-medical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude of choice of electives in other departments, so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Another and highly important goal of pre-medical training should be the development of sound study habits. To this end, the pre-medical adviser maintains an office which keeps closely in touch with the students, in an effort to develop in them a serious, purposeful attitude toward classroom and laboratory. There are frequent conferences and group meetings. The pre-medical adviser makes it possible for the Dean of the Medical School and the Entrance Committee to keep in effective contact with prospective medical students in the University, thus giving them much useful guidance and help.

The following curriculum has been devised by the pre-medical adviser as a workable schedule. Upon the completion of this curriculum, students receive the A. B. degree in the College of Arts and Sciences. Students who enter the School of Medicine after the third year receive the A. B. degree at the end of the first year of medicine.

## Pre-Medical Curriculum

**FIRST YEAR:** English composition (6); chemistry (8); zoology or biology (8); modern language, Latin, or mathematics (6); military science (2); physical education (2). Total, 32 hours.

**SECOND YEAR.** English (4 or 6); physics (8); chemistry (8); zoology, or mathematics, or psychology, or cultural group (6); modern language (6); military science (4); Total, 34 or 36 hours.

**THIRD YEAR:** physical chemistry (3); organic chemistry (6); comparative anatomy (4); zoology group, or mathematics, or psychology (3); cultural group (12); related science group or modern language (4 to 6). Total, 32 or 34 hours.

**FOURTH YEAR:** chemistry group (2 to 6); zoology group (2 to 6); cultural group (12); related science group (6); modern language group or electives as needed to complete hours required for graduation.

Another pre-medical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B. S. degree in pharmacy. For information concerning this course, inquiries should be addressed to the Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.

## THE MEDICAL CURRICULUM

The following courses and hours are required of all medical students. The length of the semester is 17 weeks including the final examination periods.

### The Schedule of Courses

COURSES	Hours Per Week			Hours Per Semester			Semester Hours of Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total	
FIRST YEAR—FIRST SEMESTER							
Gross Anatomy 201 .....	2	12	14	34	204	238	7
Histology 201 .....	2	7	9	34	119	153	5
Biochemistry 201 .....	3	9	12	51	153	204	6
FIRST YEAR—SECOND SEMESTER							
Bacteriology 202 .....	2	8	10	34	136	170	5
Embryology 202 (1st half sem.)	4	7	11	34	59	93	3
Neurology 203 (2nd half sem.)	4	7	11	34	59	93	3
Gross Anatomy 202 .....	1	8	9	17	136	153	4
Physiology 202 .....	2	3	5	34	51	85	3
SECOND YEAR—FIRST SEMESTER							
Pathology 201 .....	4	10	14	68	170	238	8
Physiology 203 .....	5	6	11	85	102	187	7
Pharmacology 202 .....	3	---	3	51	---	51	3
Public Hygiene 203 .....	2	---	2	34	---	34	2
Medicine 202 .....	---	2	2	---	34	34	‡
SECOND YEAR—FIRST HALF OF SECOND SEMESTER							
Pharmacology 203 .....	5	9	14	42	76	118	4*
Applied Anatomy 204 .....	2	6	8	17	51	68	2*
Obstetrics 201 .....	4	---	4	34	---	34	2*
History of Medicine 204 .....	1	---	1	8	---	8	0*
Clinical Pathology 203 .....	1	2	3	8	17	25	†
Physical Diagnosis 201 .....	2	2	4	17	17	34	†
Medicine 203 .....	1	---	1	8	---	8	†
Surgery 201 .....	2	---	2	17	---	17	†
SECOND YEAR—SECOND HALF OF SECOND SEMESTER							
Clinical Pathology 203 (Cont.)	1	10	11	8	85	93	3
Physical Diagnosis 201 (Cont.)	2	2	4	17	17	34	3
Medicine 202 (Cont.) .....	---	5	5	---	42	42	1
Surgery 201 (Cont.) .....	3	2	5	25	17	42	3
Special Pathology 202 .....	---	5	5	---	42	42	1
Medicine 203 (Cont.) .....	3	---	3	25	---	25	1

\*Course completed at mid-semester.

†Course continues throughout the semester.

‡Course continues throughout the year.

## The Day and Hour Schedule

### FIRST YEAR—FIRST SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M	Biochemistry 201				*	Anatomy 201				*		
T	Histology 201				*	Anatomy 201				*		
W	Biochemistry 201				*	*						
Th	Histology 201				*	Anatomy 201				*		
F	Biochemistry 201				*	Histol 201	Anatomy 201				*	
S	*	Anatomy 201			*							

### FIRST YEAR—SECOND SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M		Embryology 202 Neurology 203				*		Anatomy 202				*
T		Bact. 202	Physiol. 202	Bacteriol. 202		*		Physiology 202				*
W		Embryol. 202 Neurol. 203		Bacteriol. 202		*		Anatomy 202				*
Th		Emb. 202 Neur. 203	Physiol. 202	Bacteriol. 202		*		Embryology 202 Neurology 203				*
F		Emb. 202 Neur. 203	Bacteriology 202			*		Anatomy 202				*

### SECOND YEAR—FIRST SEMESTER

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M		*	Physiol. 203	Pharm. 202	Pathol. 201		*	Pathology 201				
T		*	Physiol. 203	Hygiene 203	Pathol. 201		*	Physiology 203				*
W		Pharm. 202	Physiol. 203	Medicine 202			*	Pathology 201				
Th		*	Physiol. 203	Hygiene 203	Pathol. 201		*	Physiology 203				*
F		*	Physiol. 203	Pharm. 202	Pathol. 201		*	Pathology 201				

## SECOND YEAR—SECOND SEMESTER—FIRST HALF

	8	9	10	11	12	1	1:30	2	3	4	4:30	5
M	Pharm. 203	Phys. D. 201	Obstet. 201	Surg. 201		*		Pharmacology 203				*
T	Pharm. 203	Anat. 204	Obstet. 201	Hist. Med. 204		*		Anatomy 204				*
W.	Pharm. 203	Phys. D. 201	Obstet. 201	Surg. 201		*		Pharmacology 203				*
Th	Pharm. 203	Anat. 204	Obstet. 201	Pathol. 203		*		Anatomy 204				*
F	Phys. Diag. 201		Med. 202	Pharm. 203		*		Pharmacology 203				*
S	*		Pathol. 203					*				

## SECOND YEAR—SECOND SEMESTER—SECOND HALF

	8	9	10	11	12	1	1:30	2	3	4	5
M	Medicine 202 or Surgery 201		Phys. D. 201	Surg. 201		*		Pathology 203			Med. 203
T	Pathology 202		Path. 203	Surg. 201		*		Pathology 203			Phys. D. 201
W	Surgery 201 or Medicine 202		Med. 203	Surg. 201		*		Pathology 203			Med. 203
Th	Pathology 202 or Medicine 202			Surg. 201		*		Pathology 203			Phys. D. 201
F	Physical Diag. 201		Path. 203	*		*		Pathology 203			Med. 203
S	Medicine 202 or Surgery 201							*			

During this half of the semester all students, in small groups, spend two weeks in a hospital clerkship at the Hopemont Sanitarium.

## COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester

II—a course offered during the second semester

I, II—a semester course offered each semester

Yr.—a continuous course extending through two semesters

PR.—prerequisite

Hrs.—Number of credit hours per course.

NOTE—Courses marked "1" are required of first-year students; those marked "2" are required of second-year students.

In addition to the required courses there are listed some elective courses. These are for the benefit of the occasional advanced student who may need them. These courses are given only when, in the opinion of the department concerned and of the dean, it is considered advisable.

On the following pages those staff members who are designated by the title "Dr." have the M. D. degree. All others, most of whom have the Ph. D. degree, are designated as "Mr." in accordance with the custom in University publications.

### Gross Anatomy and Neurology

Professor CHANDLER; Assistant Professor GODWIN; Instructor SCHADEWALD

201.<sup>1</sup> **Gross Anatomy.** I. 7 Hrs. Lectures and recitations, 2 hours per week; laboratory, 12 hours per week. PR: Zoology; comparative anatomy desirable. Staff

202.<sup>1</sup> **Gross Anatomy.** II. 4 Hrs. Continuation of Anatomy 201. Lecture, 1 hour per week; laboratory, 8 hours per week. PR: Anatomy 201. Staff

203.<sup>1</sup> **Neurology.** II. 3 Hrs. Lectures, 4 hours per week; laboratory, 7 hours per week. Second half of semester. PR: Histology 201, Anatomy 201. Staff

204.<sup>2</sup> **Applied Anatomy.** II. 2 Hrs. Lectures, 2 hours per week; laboratory, 6 hours per week. First half of semester. PR: Anatomy 201 and 202, Neurology 203, and Embryology 202. Dr. Chandler

211. **Anatomy of the Sympathetic Nervous System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler

212. **Applied Anatomy of the Pelvis and Perineum.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Staff

381. **Advanced Anatomy.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students Dr. Chandler



## Histology and Embryology

Professor DODDS; Assistant Professor GODWIN

- 201.<sup>1</sup> **Histology.** I. 5 Hrs. Lectures, 2 hours per week; laboratory, 7 hours per week. PR: Zoology, Anatomy 201 or acceptable substitute. Staff
- 202.<sup>1</sup> **Embryology.** II. 3 Hrs. Lectures, 4 hours per week; laboratory, 7 hours per week. First half of semester. PR: Histology 201 and Anatomy 201. Staff
211. **The Histology and Development of the Skeletal System.** I. or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature. Mr. Dodds
213. **Advanced Embryology.** I or II. 2-5 Hrs. With special emphasis on early stages of development. Hours to be arranged. Open to properly qualified students. Mr. Godwin
381. **Research in Microscopic or Developmental Anatomy.** I or II or Yr. 2-5 Hrs. Hours to be arranged. Elective. Open to properly qualified students. Staff

## Biochemistry

Associate Professor MACLACHLAN; Instructor WRIGHT

- 201.<sup>1</sup> **Biochemistry.** I. 6 Hrs. Lecture, 3 hours per week; laboratory, 9 hours per week. PR: Inorganic and organic chemistry, quantitative analysis, and zoology. Staff
211. **Advanced Biochemistry.** I or II. 2-5 Hrs. With special emphasis on biochemical methods. Hours to be arranged. Open to properly qualified students. Staff
239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of both animals and plants. PR: Inorganic and organic chemistry. Quantitative analysis desirable. Lecture, 2 hours; laboratory, 6 hours per week. Graduate students required to do one hour additional work per week for 4 hours' credit. Staff
381. **Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students. Staff

## Bacteriology and Public Hygiene

Professor SPRAY; Instructor STANLEY

101. **Pathogenic Bacteriology.** I. 5 Hrs. Required of Pharmacy students. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours per week. PR: Organic chemistry. Mr. Stanley
- 202.<sup>1</sup> **Medical Bacteriology.** II. 5 Hrs. Lecture, 2 hours per week; laboratory, 8 hours per week. PR: Biochemistry 201. Staff
- 203.<sup>2</sup> **Public Hygiene.** I. 2 Hrs. Lecture, 2 hours per week. PR: Bacteriology 202. Mr. Spray
211. **Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students. Staff
381. **Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 202 or equivalent. Staff

## Physiology

Professor VAN LIERE; Associate Professor NORTHUP; Instructor STICKNEY

101. **Elementary Physiology.** II. 4 Hrs. For pharmacy students. Lecture, 3 hours per week; laboratory, 3 hours per week. Mr. Northup and Mr. Stickney

- 202.<sup>1</sup> **Physiology.** II. 3 Hrs. Physiology of muscle and nervous system. Lecture, 2 hours per week; laboratory 3 hours per week. PR: Biochemistry 201 and Histology 201. Staff
- 203.<sup>2</sup> **Physiology.** I. 7 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours per week. PR: Physiology 202; Anatomy 201 and 202, and Neurology 202. Staff
211. **Seminar in Physiology.** Yr. No credit. Staff
212. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged. Dr. Van Liere
213. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged. Dr. Van Liere and Mr. Stickney
214. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged. Mr. Northup
381. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the Master of Science degree.

## Pathology

Professor FENTON; Assistant Professor DEANGELIS

- 201.<sup>2</sup> **General and Tumor Pathology.** I. 8 Hrs. Lecture, 4 hours per week; laboratory, 11 hours per week. Demonstrations. PR: Biochemistry 201. Physiology 202, Anatomy 201 and 202, and Bacteriology 201. Staff
- 202.<sup>2</sup> **Special Pathology.** II. 1 Hr. Second half of semester: Lecture, 1 hr. per week; laboratory, 4 hrs. per week. A study of special diseases, with gross and microscopic specimens from selected autopsies. Staff
- 203.<sup>2</sup> **Clinical Pathology.** II. 3 Hrs. A laboratory course in blood, gastric contents, etc., and their pathological and clinical significance. Lecture, 1 hour per week throughout the semester; laboratory, first half of semester, 2 hours per week; second half, 10 hours per week. Staff
211. **Pathology (Special).** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 201. Staff
381. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Fenton

## Pharmacology

Associate Professor EMERSON; Instructor MORRISON; Lecturer TUCKER

- 202.<sup>2</sup> **Medical Pharmacology.** I. 3 Hrs. Lecture, 3 hours per week. PR: Physiology 202. Staff
- 203.<sup>2</sup> **Medical Pharmacology and Pharmacodynamics.** II. 4 Hrs. First half of the semester: lecture, 5 hours per week; laboratory, 9 hours per week. PR: Pharmacology 202. Staff
211. **Biochemorphanology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 202, or Chemistry 233 and 239. Staff
212. **Bioassay and Comparative Pharmacology.** I and II. 3 Hrs. Lectures and demonstrations, 2 hours per week; laboratory, 3 hours per week. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 202; or Chemistry 233 or 239 and Histology 201, or Pharmacy 110. Staff
213. **Introductory Therapeutics.** II. 1 Hr. Lecture, 2 hours per week. Second half of semester. PR: Pharmacology 202. Mr. Emerson
214. **Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week, laboratory, 3 hours per week. PR: Physiology 202. Staff

381. **Research in Pharmacology.** I and II. 2-5 Hrs. Hours to be arranged.  
PR: Graduate status in physiology, chemistry, or agriculture.  
Mr. Emerson

## Medicine

Assistant Professors SLEETH, MAXWELL, SUMMERS, and WHITTLESEY;  
Instructors SALKIN, JOHNSON, EDSON, and STARKEY;  
Dr. CHANDLER, Professor of Anatomy

- 201.<sup>2</sup> **Physical Diagnosis.** II. 3 Hrs. First half of semester: lecture, 2 hours per week; laboratory, 2 hours per week. Second half of semester: lecture, 2 hours per week; practical work with patients, 2 hours per week. Hospital clerkship at Hopemont Sanitarium, two weeks. Staff
- 202.<sup>2</sup> **Introductory Medicine.** Yr. 1 Hr. First semester: demonstration of clinical cases in conjunction with the Department of Pathology, 2 hours per week. Second semester, second half: demonstration of clinical cases, 5 hours per week. Medical problems are also considered in the clerkship at Hopemont Sanitarium. Staff
- 203.<sup>2</sup> **Medicine.** II. 1 Hr. First half of semester: lecture, 1 hour per week. Second half of semester: lecture, 3 hours per week.  
Dr. Sleeth and Dr. Whittlesey
- 204.<sup>2</sup> **History of Medicine.** II. No cr. A brief history of the development of medicine.  
Dr. Chandler

## Introductory Surgery

Associate Professor PRIDE

- 201.<sup>2</sup> **Principles of Surgery.** II. 3 Hrs. First half of semester: lecture, 2 hours per week. Second half of semester: lecture, 3 hours per week; demonstrations of clinical cases and operative technique, 2 hours per week. PR: Anatomy 201 and 202. Applied Anatomy to be taken concurrently.

## Obstetrics

Professor VAN LIERE

- 201.<sup>2</sup> **Obstetrics.** II. 2 Hrs. An introductory course in obstetrics. First half of semester: lecture, 4 hours per week. PR: Anatomy 201 and 202, Physiology 202 and 203 and Pathology 201.

## THE LIST OF STUDENTS, 1941-42

### First-Year Students in the School of Medicine

ALVAREZ, JOSEPH .....	Meadowbrook
BARKER, ELIZABETH FAYNE .....	Morgantown
BROWN, DONALD PAINTER .....	Kingwood
BULLARD, ARCH HUPP, JR. ....	Triadelphia
A. B., West Virginia University, 1941	
CAIN, ALVIN LAFAYETTE .....	Fairmont
B. S., Bethany College, 1941	
COOK, FRED WILLIAM, JR. ....	Follansbee
CUREY, GEORGE ALEXANDER .....	White Sulphur Springs
DODRILL, R. MOORE .....	Weleh
EDMISTON, JOHN MCWHORTER .....	Buckhannon
B. S., West Virginia Wesleyan College, 1941	
EVANS, GEORGE PHILLIPS, JR. ....	Iaeger
A. B., Marshall College, 1941	
FANKHOUSER, RUSSELL LEWIS .....	Pine Grove
GRASSO, JOSEPH ANTHONY .....	Gary
HOGSHEAD, GEORGE WILLIAM .....	Montgomery
HUCK, CHARLES DOTSON .....	Lewisburg
HUNT, RUSSELL BROOKS .....	Clendenin
HYER, HARRY JACKSON .....	Sutton
A. B., West Virginia University, 1941	
JACKSON, THOMAS WILLIAM .....	Piedmont
A. B., West Virginia University, 1941	
McFARLAND, THOMAS CROWLEY, JR. ....	Spring Hill
McKEE, JOHN STOTTER, JR. ....	Martinsburg
MALCOMB, NELLE EMILE .....	South Charleston
A. B., Marshall College, 1941	
MEADOWS, EDMUND CURTIS .....	Montrose
A. B., Glenville State Teachers College, 1939	
MEHALIC, FRANCES ELOISE .....	Morgantown
MILAM, DENVER FRANKLIN .....	Sissonville
NOTTINGHAM, ROBERT JULIAN .....	Morgantown
B. S., West Virginia University, 1941	
RANDOLPH, BRADY FITZ, JR. ....	Sutton
REGER, ROBERT FULLER .....	Clarksburg
RODGERS, ELLIE PARKER, JR. ....	Morgantown
RUECKL, FRANK VICTOR, JR. ....	Weston
SMITH, HARRY CECIL .....	Clay
A. B., Ohio University, 1940	
WADE, FRANKLIN GEORGE .....	Wellsburg
A. B., West Virginia University, 1941	

## Second-Year Students in the School of Medicine

CARR, JOEL FOSTER .....	Princeton
A. B., West Virginia University, 1940	
COFFIELD, OLAN TERRELL .....	Morgantown
A. B., West Virginia University, 1940	
CUMMINGS, MELVILLE HOMER, JR. ....	Williamstown
B. S., Marshall College, 1941	
DRAPER, HARRY RICHARD, JR. ....	Rainelle
A. B., West Virginia Institute Technology, 1941	
ECKLEY, GEORGE MORGAN, JR. ....	Beekley
A. B., West Virginia University, 1941	
FOLEY, MARY JANE .....	Clarksburg
A. B., West Virginia University, 1941	
HALL, JACK HEROD .....	Morgantown
A. B., West Virginia University, 1941	
HOGSHEAD, RALPH, JR. ....	Montgomery
A. B., West Virginia University, 1941	
HORN BROOK, FRANCIS EUGENE .....	New Martinsville
A. B., West Virginia University, 1941	
HUNTER, JACK WILLIAM .....	Buckhannon
B. S., West Virginia Wesleyan College, 1938	
HUTCHINSON, BERNARD MEARNES .....	Sutton
A. B., West Virginia University, 1933	
LEONARD, CHARLES LEE .....	Beverly
A. B., West Virginia University, 1941	
LEONARD, JAMES BERNARD .....	Parkersburg
A. B., Marietta College, 1940	
MCCULLOUGH, EDISON WOODROW .....	St. Mary's
A. B., West Virginia University, 1940	
MILLS, WOODROW WILSON .....	Kenova
A. B., Marshall College, 1933	
MULLENS, HENRY SCOTT .....	Wayne
A. B., West Virginia University, 1941	
QUICK, JAMES CHILTON .....	Clendenin
A. B., West Virginia University, 1941	
RICE, WILLIAM RUFUS .....	Dunbar
A. B., West Virginia University, 1941	
SLAUGHTER, JAMES FLOYD .....	Charleston
A. B., West Virginia University, 1941	
VEST, JAMES CHRISTOPHER .....	Whitesville
WARDEN, JACOB GARVIN .....	Wardensville
A. B., West Virginia University, 1941	



*Edward J. Van Lier*

# West Virginia University Bulletin

Series 43, No. 9-1

March, 1943

## Announcements

### THE SCHOOL OF MEDICINE

### The 1943-44 Session



MORGANTOWN, WEST VIRGINIA

Published by the University

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Morgantown, West Virginia, under the Act of August 24, 1912

Issued Monthly

# Year 1943

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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# Year 1944

JANUARY							FEBRUARY							MARCH							APRIL							
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MAY							JUNE							JULY							AUGUST							
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER							
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24	25	26	27	28	29	30	29	30	31					26	27	28	29	30			22	23	24	25	26	27	28	29
																						31						



# The Medical School Calendar

On account of the national emergency the Medical School is operating on an accelerated schedule. Its calendar is different from the general University calendar. It is subject to change without notice.

## Dates for Admission of Classes under Accelerated Program

June 1 .....	1942
March 22 .....	1943
December 27 .....	1943
September 27 .....	1944

## CALENDAR

### Spring Term, 1943

(New class enters)

Registration .....	March 22, Monday
First classes .....	March 23, Tuesday
Last classes .....	June 5, Saturday
Examinations .....	June 7, Monday, to June 9, Wednesday, inclusive.

### Summer Term, 1943

Registration .....	June 14, Monday
First classes .....	June 15, Tuesday
Last classes .....	August 28, Saturday
Examinations .....	August 30, Monday, to September 1, Wednesday, inclusive.

### Autumn Term

Registration .....	September 27, Monday
First classes .....	September 28, Tuesday
Thanksgiving Recess .....	November 25, Thursday, to November 28, Sunday, inclusive.
Last classes .....	December 14, Tuesday
Examinations .....	December 15, Wednesday, to December 17, Friday, inclusive.

### Winter Term, 1943-44

(New class enters)

Registration .....	December 27, Monday
First classes .....	December 28, Tuesday
Last classes .....	March 11, Saturday
Examinations .....	March 13, Monday, to March 15, Wednesday, inclusive.

### Spring Term, 1944

Registration .....	March 20, Monday
First classes .....	March 21, Tuesday
Last classes .....	June 3, Saturday
Examinations .....	June 5, Monday, to June 7, Wednesday, inclusive.

# West Virginia University

Morgantown

Established February 7, 1867

## The West Virginia Board of Control

### TERM EXPIRES

ROBERT F. ROTH, PRESIDENT, <i>Fairmont</i> .....	June 30, 1943
_____, SECRETARY .....	June 30, 1943
WILLIAM C. COOK, <i>Charleston</i> .....	June 30, 1945

The West Virginia Board of Control has the direction of the financial and business affairs of the state educational institutions.

## The Board of Governors

### TERM EXPIRES

ARTHUR BURKE KOONTZ, PRESIDENT, <i>Charleston</i> .....	June 30, 1944
JOHN DEMPSEY HOBLITZELL, Jr., VICE-PRESIDENT, <i>Parkersburg</i> , .....	June 30, 1945
AUSTIN V. WOOD, <i>Wheeling</i> .....	May 31, 1946
HARRIET LOUISE FRENCH, <i>Bluefield</i> .....	June 30, 1941
FREDERICK FRELINGHUYSEN MCINTOSH, Jr., <i>Spencer</i> ..	June 30, 1945
HERBERT CHESTER GREER, <i>Morgantown</i> .....	June 30, 1944
ROBERT HOWARD PRITCHARD, <i>Weston</i> .....	June 30, 1946
CHARLES THOMPSON NEFF, Jr., SECRETARY, <i>Morgantown</i>	

The Board of Governors has charge of the educational and administrative affairs of the University.



THE SHENELL PRINTING CO., PARKERSBURG, W. VA.

# The School of Medicine

## ADMINISTRATION

CHARLES ELMER LAWALL, E. M., M. S., LL. D., *President of the University.*

EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Dean.*

## THE FACULTY

### **Emeritus**

JOHN NATHAN SIMPSON, A. B., M. D., F. A. C. P., *Dean Emeritus.*

### **Professors**

EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Professor of Physiology.*

GIDEON STANHOPE DODDS, B. A., M. A., PH. D., *Professor of Histology and Embryology.*

CLEMENT COLEMAN FENTON, A. B., B. S., M. S., M. D., F. A. C. P., *Professor of Pathology and Clinical Pathology.*

ROBB SPALDING SPRAY, B. S., M. S., PH. D., *Professor of Bacteriology and Public Hygiene.*

SIMON B. CHANDLER, A. B., A. M., M. D., *Professor of Gross Anatomy and Neuro-anatomy.*

### **Associate Professors**

GEORGE ALBERT EMERSON, A. B., M. S., PH. D., *Associate Professor of Pharmacology.*

DAVID WILMARTH NORTHUP, A. B., A. M., PH. D., *Associate Professor of Physiology.*

PERCIVAL LLOYD MACLACHLAN, B. A., PH. D., *Associate Professor of Biochemistry.*

CECIL BENJAMIN PRIDE, A. B., M. D., F. A. C. S., *Associate Professor of Surgery.*

### **Assistant Professors**

GEORGE RALPH MAXWELL, B. S., M. D., F. A. C. P., *Assistant Professor of Physical Diagnosis.*

ROY ROOSEVELT SUMMERS, B. S., M. D., *Assistant Professor of Physical Diagnosis.*

CLARK KENDALL SLEETH, A. B., B. S., M. D.,<sup>1</sup> *Assistant Professor of Physical Diagnosis.*

MELVIN CRAWFORD GODWIN, A. B., PH. D., *Assistant Professor of Histology and Anatomy.*

EUGENE DEANGELIS, B. S., M. B., M. D., *Assistant Professor of Pathology.*

FREDERICK RENDELL WHITTLESEY, A. B., M. D., F. A. C. P., *Assistant Professor of Medicine.*

### **Instructors**

ALFRED REEVES STANLEY, A. B., M. S., PH. D., *Instructor in Bacteriology.*

DAVID SALKIN, M. D., F. A. C. P., *Instructor in Medicine (Physical Diagnosis).*

JOHN CLIFFORD STICKNEY, B. S., M. S., PH. D., *Instructor in Physiology.*

CARL EDWARD JOHNSON, A. B., B. S., M. D., *Instructor in Medicine.*

ARCHIE LEMUEL STARKEY, B. S., M. D., *Instructor in Medicine (Physical Diagnosis).*

GLENN DRAGER, B. S., M. S., *Instructor in Anatomy.*

JACK KING FINNEGAN, A. B., M. S., *Instructor in Pharmacology.*

DONALD WELCOMER MCKINSTRY, B. S., M. S., PH. D., *Instructor in Biochemistry.*

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<sup>1</sup>On leave of absence for military service.

### Lecturer

ELDON BRYANT TUCKER, B. S., M. D., *Lecturer in Pharmacology (Anesthesiology)*.

### Technicians

FABRY LIVINGSTON HAWK, Reg. Med. Technologist, *Technician in Pathology*.  
DAVID SAMUEL BARRICKMAN, B. S., M. S., *Technician in Anatomy and Histology*.

WOODROW THACKER, *Technician in Biochemistry*.

CHARLES ERNEST HOLLANDSWORTH, *Technician in the University Health Service*.

### Clerical

FLORENCE ELLIOTT WEAVER, *Secretary*.

EDITH ROSS, *Assistant Secretary and Record Clerk*.

## THE UNIVERSITY HEALTH SERVICE

### Physicians

ROY ROOSEVELT SUMMERS, B. S., M. D., *Director and Physician*.

SAMUEL JOHN MORRIS, M. D., *Physician and Medical Adviser to the Department of Athletics*.

CLARK KENDALL SLEETH, A. B., B. S., M. D.,<sup>1</sup> *Physician*.

EUGENE DEANGELIS, B. S., M. B., M. D., *Physician*.

### Nurses

MABEL M. LOVE, R. N., *Nurse in the University Health Service*.

ETHEL FEATHER, *Nurse in the University Health Service*.

MARIE HADDOCK, R. N., *Nurse in the University Health Service*.

### Clerical

HELEN CLARISSA O'NEILL, *Secretary in the University Health Service*.

## THE STANDING COMMITTEES

### Executive Committee

EDWARD J. VAN LIERE, *Chairman*

G. S. DODDS

F. R. WHITTLESEY

C. B. PRIDE

### Committee on Entrance and Scholarship

G. S. DODDS, *Chairman*

S. B. CHANDLER

G. A. EMERSON

C. C. FENTON

P. L. MACLACHLAN

### Committee on Library

S. B. CHANDLER, *Chairman*

G. S. DODDS

G. A. EMERSON

E. DEANGELIS

P. L. MACLACHLAN

### Committee on Research

EDWARD J. VAN LIERE, *Chairman*

R. S. SPRAY

D. W. NORTHUP

G. A. EMERSON

P. L. MACLACHLAN

### Committee on Seminars

S. B. CHANDLER, *Chairman*

E. DEANGELIS

J. C. STICKNEY

C. C. FENTON

EDWARD J. VAN LIERE

### Committee on Clinical and Special Facilities

C. B. PRIDE, *Chairman*

C. C. FENTON

R. MAXWELL

E. DEANGELIS

F. R. WHITTLESEY

<sup>1</sup>On leave of absence for military service.

## GENERAL INFORMATION

### SPECIAL NOTICE

The School of Medicine has been operating on an accelerated schedule since June 1, 1942, so that the University may play its part in the more rapid training of physicians needed in the present national emergency. Under this plan the long summer vacation has been eliminated. The academic year is divided into three terms instead of two semesters as formerly. A new class is admitted every nine months, and a student completes the two years' work within eighteen calendar months after entrance. The plan followed is essentially the same as that adopted by the majority of medical schools in this country. This school plans to continue this schedule as long as the need exists, but it is probable that from time to time certain modifications may be necessary to adapt it to changing conditions.

The Committee on War Activities of the Association of American Medical Colleges is in constant touch with the appropriate Federal authorities and keeps medical schools informed of the means by which they may meet the changing needs of the national emergency. No announcement can be made concerning the place of medical students and of prospective medical students in the general plan of the Armed Services, because the progressive development of policies would soon render any such statement obsolete. The office of the Dean of the Medical School gladly furnishes available information to interested persons.

### Instruction in Medicine

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### Agreement With Medical College of Virginia

Only the first two years of medicine are given at West Virginia University. There has been made an agreement with the Medical College of Virginia at Richmond for the transfer of as many as twenty students, residents of West Virginia, who have completed the first two years at West Virginia University. At the Medical College of Virginia these students will pay the same tuition as ~~they would pay at West Virginia University.~~ Upon graduation, diplomas will be issued jointly by the two schools. Other students in the class may, as in the past, transfer to various medical schools for the completion of their work.

paid by the residents of Virginia.

## **Buildings and Equipment**

### **THE MEDICAL BUILDING, LABORATORIES, AND CLASSROOMS**

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in a separate building.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center: a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

### **LIBRARY**

The Medical Library is not organized as a separate unit but is housed in the University Library Building, where publications of prime importance to the students and faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building, which is closely adjacent to the Library Building. Additional current issues of essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 13,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with the pre-clinical fields for the most part but comprising also the better representative works in internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and the history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, the Library of Congress, or other libraries. Complete sets of various abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library, and a member of the Staff also represents the School of Medicine on the general Library Committee of the University.

## **LIVING ACCOMMODATIONS**

The University maintains two large dormitories, one for men and one for women. Cost of room and board in the dormitory for men ranges from \$824 to \$396 per academic year of nine months; in the dormitory for women, from \$333 to \$396 per academic year. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Director of Residences and Commons, West Virginia University, Morgantown. Because of Government occupation of the dormitory for men, reservations in this hall cannot be made for the duration.

Medical students, in the main, must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For further information concerning houses on the approved list, men should address the office of Mr. H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University.

## **COST OF A YEAR'S WORK**

Textbooks and supplies will cost about \$50 to \$75 per academic year. Registration fees for residents are \$255; for non-residents, \$405 per academic year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month session for medical students in residence will range from \$750 to \$950, exclusive of traveling expenses.

## **LOANS FOR MEDICAL STUDENTS**

It frequently happens that students otherwise well qualified for the study of medicine are short of funds to defray the necessary expenses. For the assistance of such students there are available certain loans, some specifically for medical students, others available to students of all colleges in the University. For information about loans, inquiries should be made to Mr. Harry E. Stone, Secretary, Committee on Prizes, Scholarships, and Loan Funds, West Virginia University, Morgantown.

## **The University Health Service**

The University Health Service, which is a part of the organization of the School of Medicine, is maintained to provide medical service to the students of the University and to supervise the general health conditions on the campus. The staff includes three physicians, three nurses, and a laboratory technician. The University Pharmacy, where students may secure medicine, is managed by the College of Pharmacy. The Departments of Pathology and Bacteriology cooperate in the laboratory examination of diagnostic materials.

Each regularly enrolled University student pays a fee which provides for medical consultation and advice from the University Physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, minor operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. Hospital insurance is included in the student's medical fees. This service covers the cost of routine hospital care in the local hospitals for an aggregate of thirty days in each school year. This in-

surance does not cover professional fees which might raise in connection with such hospitalization. When a student enters the University for the first time, he receives a complete physical examination, which includes a blood test, urine analysis, and tuberculin test. The Health Service also gives special physical examinations to students in competitive athletics, to University food handlers, to employees of buildings and grounds, and to other groups as occasion may arise.

The Health Service occupies a well-designed University Health Center constructed in 1941. This three-story building is centrally located on the campus, fronting on College Avenue adjacent to Reynolds Hall. It is a T-shaped structure of brick and concrete, with a front width of 88 feet and a depth of 68 feet.

On the first floor are the receiving room; the office of the secretary; offices for three physicians; a room for minor surgery; rooms for treatments and for the various forms of physiotherapy; a room for basal metabolism readings and electro-cardiograms; and a consultation and reading room for physicians. One room on this floor is assigned to the University Pharmacy for the dispensing of drugs to students.

On the second floor is the diagnostic laboratory with adequate equipment for making tests and analyses. The X-ray equipment is housed in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor also are rooms occupied by the Department of Pathology of the School of Medicine, including a good-sized student laboratory, the pathological museum, a preparation room, a stock room, and the necessary offices and private laboratories. The members of the Department staff cooperate with the Health Service Laboratory in diagnostic work.

The third floor is designed for the hospitalization of students. On the main corridor are rooms accommodating sixteen hospital beds. In the rear wing, on a private corridor, are two isolation wards with seven beds for contagious cases. This corridor has its own bath, toilet, diet kitchen, and utility room. This floor also includes a three-room suite designed to serve as living quarters for nurses.

### **Clinical and Special Facilities**

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine:

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruc-



tion in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the City Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia County the Department of Pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the City Hospital, the Monongalia General Hospital, and the Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

### **Seminar**

On alternate Friday afternoons at 4 o'clock there is held a seminar, attended by faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

### **Journal Club**

The Journal Club, organized by the Faculty of the School of Medicine, meets once each week during the Fall, Winter, and Spring terms. At each meeting a member presents for discussion a report of outstanding papers published in his field of interest. Students and Faculty are invited to attend and to join in the discussions.

## **Organizations and Lectureships**

### **ALUMNI ASSOCIATION**

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

### **JOHN N. SIMPSON LECTURESHIP**

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, now Dean Emeritus of the School of Medicine, giving an annual lecture by someone distinguished in medical research or practice.

## REQUIREMENTS FOR ADMISSION

The requirements for admission, stated below, are those in force during recent years. These requirements conform to the standards of the Council on Medical Education and Hospitals of the American Medical Association and of the Association of American Medical Colleges. If the national emergency makes it necessary, these requirements may be changed without notice, but any such changes must be in harmony with sound educational practice as agreed upon by the medical schools of our country.

### 1. How to Apply for Admission

Applications for admission must be made upon blanks which may be obtained from the dean's office upon request. No application will be considered until the Dean's office has received a complete, official transcript of all high-school and college work, including a statement of honorable dismissal. Such records should include a statement of the courses in progress at the time of application, and the applicant should have sent to the Medical School official records of all courses subsequently completed. Applicants who previously have attended any medical school must submit also a complete transcript of all medical work, together with a letter of honorable dismissal from the last medical school attended.

It is the responsibility of the applicants (except those in residence at West Virginia University) to have all the above records forwarded to the Dean of the Medical School. After certificates have been considered by the Committee on Entrance and the credits recorded, the certificates become the property of the University and are filed permanently in the Registrar's office.

### 2. When to Apply for Admission

Applications should be made, if possible, a year in advance of the expected date of entrance, so that the Entrance Committee may have time for careful study of credentials.

### 3. Date of Notification of Applicants

The dates when applicants may be notified of acceptance into medical schools have been set in conferences between medical educators and Federal authorities. Inasmuch as changes may be expected, no dates are announced here. Applications will be considered as long as there are vacancies.

### 4. Advance Deposit Fee

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first term. If this fee is not received within ten days after the date of the acceptance notice, the place will be considered open to other applicants. If the applicant fails to enter the School of Medicine, this deposit is not returnable. Checks must be made payable to West Virginia University.

### 5. Residence

Preference is given to residents of West Virginia. Non-residents will be considered only after all eligible residents have been admitted.

## 6. Scholarship

The number of students that can be admitted is definitely limited. In selecting students to fill the available places, preference will be given to applicants of high scholarship. The school reserves the right to reject any applicants whose pre-medical records are unsatisfactory in quality of scholarship.

In computing average grades of students applying for admission to the School of Medicine, grades are expressed in numerical points per semester hours as follows:

A .....	3	D .....	0
B .....	2	E .....	minus 1
C .....	1	F .....	minus 2

These values are applied to all courses (military and physical education excepted) in all institutions attended. The value of minus 1 applies to a grade of E whether this grade is subsequently changed to a passing grade or to a failure. When grades are expressed in a system different from the one used at West Virginia University, the values will be adjusted to give an equivalent measure of accomplishment.

## 7. Medical Aptitude Test

Applicants are required to take the aptitude test approved by the Association of American Medical Colleges, given at announced dates in all colleges preparing students for the study of medicine. The rating in this test will be considered in determining the fitness of the applicant.

## 8. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Entrance considers such readmissions justified.

## 9. Age

Applicants must be at least 18 years of age at the time of entrance to the Medical School.

## 10. Subject Requirements for Admission

All applicants must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college.

A detailed statement of such requirements follows:

### Secondary-School Credits Required

**Secondary-School Unit.** A unit in any subject represents the amount of work that may be done in a standard high school in a year of 36 weeks, with five recitations each week of no less than 40 minutes each. In courses where laboratory work is required, from two to three hours of laboratory work are considered the equivalent of one hour of recitation, according to the amount of outside preparation required in connection with such work.

For admission to the School of Medicine the applicant must have credit for 15 units of high-school work, as follows:

1. English .....	4 units*
2. A second subject .....	3 units
3. Mathematics	
Algebra .....	1 unit
Plane geometry .....	1 unit
4. One other subject .....	2 units
5. Other subjects .....	4 units

The School of Medicine strongly urges that applicants have two units of Latin.

### College Credits Required

In addition to the high-school requirements, applicants must have credit for at least three years' work in a college of recognized standing. This must include 90 semester hours, exclusive of military science and physical education.

Preference is given to applicants whose pre-medical collegiate work was taken in approved colleges of arts and sciences or junior colleges included in the list published by the Council on Medical Education and Hospitals of the American Medical Association.

**College Credit.** A college credit or semester hour represents the amount of work done in one semester in one recitation hour, with two preparation hours a week. From two to three hours of laboratory work are considered equivalent to one hour of recitation, according to the amount of outside work assigned in connection with the laboratory hour.

The following subjects and hours are the minimum requirements for admission. They must be met in full:

English composition and rhetoric .....	6 hours
Physics .....	8 hours
Biological sciences .....	12 hours
(Should be mainly zoology and should include comparative anatomy of the vertebrates.)	
Chemistry .....	20 hours
(Six hours must be organic chemistry)	
Psychology .....	3 hours
A modern foreign language .....	12 hours
(German or French preferred.)	
Electives to meet the required number of hours.	

Mathematics, while not an absolute requirement, is strongly recommended. Algebra and trigonometry should be taken early enough that they may be useful in the courses in physics and chemistry.

The 12 hours of modern language must be taken in one language. Applicants who have had two units in high school may satisfy the requirement by taking 6 hours of advanced college work in the same language.

Applicants who have not had Latin in high school are urged to take a year of Latin in college.

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\*Students who present only 2 units of English for entrance are required to take 6 hours of college English in addition to the 6 hours required for entrance.

As electives the following subjects are suggested: Botany, economics, genetics, history, mathematics, sociology; advanced work in English composition, chemistry, physics, psychology, and zoology. It should be the aim of the student to gain a broad education, containing much training of general importance, rather than to confine his efforts to the required pre-medical sciences. It is not wise to elect subjects that are in any sense a duplication of subject matter given in the medical-school curriculum.

Additional suggestions for pre-medical students are given on page 18 of this Bulletin.

## **REGISTRATION**

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each term, as announced in the calendar on page 3 of this Bulletin.

No student will be permitted to register in the School of Medicine after the first week of classes.

## **Departure from Scheduled Work**

Students must register for all the prescribed courses for each term, except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## **FEES**

All fees are due and payable at the office of the Comptroller on the day of registration.<sup>1</sup> Students registering in the School of Medicine pay the following:

### **Advance Deposit Fee**

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list for registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first term. In the event of the failure of the applicant to enter the School of Medicine this deposit fee is forfeited.

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<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the registrar shall notify their instructors that their class cards are to be withdrawn.

## Tuition and Other Fees

	Resident <sup>3</sup>	Non-Resident <sup>3</sup>
University Fees and Tuition (per term) .....	\$85.00	\$135.00
Part-time students (per semester hour) <sup>2</sup> .....	8.00	12.50

## SPECIAL FEES

Late registration <sup>4</sup> .....	\$ 2.00
Diploma fee <sup>5</sup> .....	10.00
Student's record fee <sup>6</sup> .....	1.00
Breakage deposit .....	10.00

## REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University:

	Amount of refund
During the first and second weeks .....	All fees less \$3.00
During the third and fourth weeks .....	80 % of fees
During the fifth and sixth weeks .....	60 % of fees
During the seventh and eighth weeks .....	40 % of fees
Beginning with ninth week .....	No refunds allowed

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<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during a term. A part-time student is one who is registered for fewer than 10 semester hours per term.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicile in this state, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>4</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 3.

<sup>5</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>6</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

## STANDARDS OF SCHOLARSHIP

### Grading and Honor Points

- A—Excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above the average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—condition<sup>1</sup>
- F—failure
- FIW—failure because of irregular withdrawal
- I—incomplete<sup>2</sup>
- W—all withdrawals prior to the end of the second week following the date set for mid-semester reports
- WP—withdrew passing after the end of the second week following the date set for mid-semester reports
- WF—withdrew failing after the end of the second week following the date set for mid-semester reports

The quality of a student's work shall be expressed in honor points, which are based only on grades earned in West Virginia University. All courses taken in this institution which are offered toward credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of 1 honor point per credit-hour to be eligible for graduation.

### Removal of Conditions

Examinations for the removal of conditions may not be taken immediately upon notification of the grade, but only after reasonable time for supplementary study, and on dates approved by the Scholarship Committee of the School of Medicine.

Students wishing to take such examinations should make application to the professor concerned, and should secure at the Dean's office a "condition removal" card.

### Promotions and Suspensions

Any student who fails or conditions all of his work for any term is thereby indefinitely suspended.

Any student who fails to make passing grades in at least half the total number of hours for which he was registered in any two consecutive terms is thereby indefinitely suspended.

A student who at the end of the first year has aggregate failures of as much as five semester hours will not be allowed to register for second-year work unless such deficiency is removed by repeating the work in an acceptable school.

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<sup>1</sup>A mark of "E" not removed within the following term becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a C shall be recorded for the removal of a condition.

<sup>2</sup>If a grade of "I" is not removed within the following term by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

A student who during his first year does not make a grade of C or better in at least half of the scheduled credit hours for the year may not register for second-year courses except by special permission of the Scholarship Committee.

### **Withdrawals**

A student who wishes to withdraw during the term should do so in regular manner. Consult the Dean's office for the steps which must be taken.

### **REQUIREMENTS FOR DEGREES**

The School of Medicine gives no degrees in medicine, except as noted on page 7, inasmuch as only the first two years of medicine are given. It, however, cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree, upon the completion of the two years of medical work, to those students who comply with certain requirements of the College of Arts and Sciences.

### **PRE-MEDICAL CURRICULA**

In view of the war emergency it is impossible to anticipate just what form pre-medical education will take in the immediate or more remote future. Without doubt, changes of various kinds will become necessary. The following paragraphs express the ideals which have guided pre-medical education at West Virginia University in recent years. Such changes as may be made will be for the purpose of enabling the pre-medical program and the School of Medicine to serve more adequately the needs of the present hour.

In keeping with the need for good pre-medical training, West Virginia University, through its pre-medical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia University to give special pre-medical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude of choice of electives in other departments, so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Upon the completion of the four-year pre-medical curriculum, students receive the A. B. degree in the College of Arts and Sciences. Students who enter the School of Medicine after the third year receive the A. B. degree at the end of the first year of medicine.

Another pre-medical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B. S. degree in pharmacy. For information concerning this course, inquiries should be addressed to the Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.



## THE MEDICAL CURRICULUM

The following courses and hours are required of all medical students.  
The length of a term is 11 weeks exclusive of the final-examination periods.

### The Schedule of Courses

	Hrs. per week			Hrs. per term			Semester Hours Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total	
FIRST YEAR—FIRST TERM							
Histology 201 .....	5	12	17	55	132	187	6
Biochemistry 201 .....	6	12	18	66	132	198	6
FIRST YEAR—SECOND TERM							
Gross Anatomy 201 .....	3	12	15	33	132	165	5
Embryology 202 .....	2	3	5	22	33	55	2
Medical Bacteriology 202	3	12	15	33	132	165	5
FIRST YEAR—THIRD TERM							
Gross Anatomy 202 .....	3	15	18	33	165	198	6
Neuro-anatomy 203 .....	3	5	8	33	55	88	3
Physiology 202 .....	3	5	8	33	55	88	3
SECOND YEAR—FIRST TERM							
Physiology 203 .....	7	9	16	77	99	176	7
General Pathology 201 .....	3	7	10	33	77	110	4
Pharmacology 202 .....	6	—	6	66	—	66	3
Physical Diagnosis 201.....	—	2	2	—	22	22	*
SECOND YEAR—SECOND TERM							
Public Hygiene 203 .....	3	—	3	33	—	33	2
Tumor Pathology 202 .....	3	8	11	33	88	121	4
Pharmacology 203 .....	3	6	9	33	66	99	4
Physical Diagnosis 201 .....	1	2	3	11	22	33	*
Medicine 202 .....	1	1	2	11	11	22	*
History of Medicine 204 .....	1	—	1	11	—	11	0
Principles of Surgery 201.....	2	—	2	22	—	22	*
Obstetrics 201 .....	3	—	3	33	—	33	2
SECOND YEAR—THIRD TERM							
Applied Anatomy 204 .....	2	4	6	22	44	66	2
Special Pathology 203 .....	1	3	4	11	33	44	1
Clinical Pathology 204 .....	3	8	11	33	88	121	3
Physical Diagnosis 201.....	2	2	4	22	22	44	3
Medicine 202 .....	1	3	4	11	33	44	2
Principles of Surgery 201.....	1	2	3	11	22	33	3

\*Credit at end of third term.

# **The Day and Hour Schedule**

## **FIRST YEAR—FIRST TERM**

	8	9	10	11	12	1	2	3	4	5
M			Biochemistry					Histology		
T			Biochemistry					Histology		
W			Histology							
Th			Biochemistry					Histology		
F			Biochemistry					Histology		
S			Biochemistry	Histology						

## **FIRST YEAR—SECOND TERM**

	8	9	10	11	12	1	2	3	4	5
M			Embryology					Bacteriology		
T		Anatomy		Embryol.				Bacteriology		
W			Anatomy					Bacteriology		
Th			Anatomy					Bacteriology		
F			Anatomy					Bacteriology		
S										

## **FIRST YEAR—THIRD TERM**

	8	9	10	11	12	1	2	3	4	5
M			Neuro-Anatomy					Anatomy		
T		Anatomy		Physiol.			Phys.	Physiology		
W			Neuro-Anatomy					Anatomy		
Th		Anatomy		Physiol.				Physiology		
F			Anatomy					Anatomy		
S										

**The Day and Hour Schedule**  
**SECOND YEAR—FIRST TERM**

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Physiol.	Pathology				Physiology			
T	Pharm.	Physiol.	Path.	Physiol.			Physiology			
W	Phys. Diag.		Pathology							
Th	Pharm.	Physiol.	Path.	Physiol.			Physiology			
F		Physiol.	Path.	Pharm.			Physiology			
S		Pharm.	Physiol.	Pharm.						

**SECOND YEAR—SECOND TERM**

	8	9	10	11	12	1	2	3	4	5
M	Phys. Diag.	Pub. Hyg.	Obstet.	Hist. Med.			Pathology			
T		Pharm.	Path.	Surg.			Pharmacology			
W	Med.	Pharm.	Obstet.	Pub. Hyg.			Pathology			
Th	Med.	Pharm.	Path.	Surg.			Pharmacology			
F	Phys. Diag.		Obstet.	Pub. Hyg.			Pathology			
S										

**SECOND YEAR—THIRD TERM**

	8	9	10	11	12	1	2	3	4	5
M	Phys. Diag.	Pathology					Clinical Pathology			
T	Medicine			Clinical Path.			Applied Anatomy			
W	Surgery			Med.			Clinical Pathology			
Th	Phys. Diag.	Clinical Path.	Path.	Surg.			Applied Anatomy			
F	Physical Diagnosis						Clinical Pathology			
S										

## COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester.

II—a course offered during the second semester.

I, II—a semester course offered each semester.

Yr.—a continuous course extending through two semesters.

Hrs.—Number of semester hours credit per course.

NOTE—Courses marked “1” are required of first-year students; those marked “2” are required of second-year students.

Under the accelerated program of the School of Medicine the work of the academic year is divided into three terms instead of two semesters as it is in the rest of the University. The credits are, however, reported in semester hours in conformity with the general University practice.

In addition to the required courses there are listed some elective courses for the benefit of the occasional advanced student who may need them. These courses are still described under the semester plan. They are given only when, in the opinion of the department concerned and of the Dean, it is considered advisable. If there should arise a demand for any of these courses, the Medical School will try to meet the need, but the schedule will be contingent upon the extent to which staff members are occupied with the required medical courses.

On the following pages those staff members who are designated by the title “Dr.” have the M. D. degree. All others, most of whom have the Ph. D. degree, are designated as “Mr.” in accordance with the custom in University publications.

### Gross Anatomy and Neuro-anatomy

Professor CHANDLER; Assistant Professor GODWIN; Instructor DRAGER

- 201.<sup>1</sup> **Gross Anatomy.** 2nd term. 5 Hrs. Lectures and recitations, 3 hours per week; laboratory, 12 hours per week. Staff
- 202.<sup>1</sup> **Gross Anatomy.** 3rd term. 6 Hrs. Continuation of Anatomy 201. Lecture, 3 hours per week; laboratory, 15 hours per week. Staff
- 203.<sup>1</sup> **Neuro-anatomy.** 3rd term. 3 Hrs. Lectures, 3 hours per week; laboratory, 5 hours per week. Staff
- 204.<sup>2</sup> **Applied Anatomy.** 3rd term. 2 Hrs. Lectures, 2 hours per week; laboratory, 4 hours per week. Dr. Chandler
211. **Anatomy of the Sympathetic Nervous System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler

- 212. Applied Anatomy of the Pelvis and Perineum.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Staff
- 381. Advanced Anatomy.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler

### Histology and Embryology

Professor DODDS; Assistant Professor GODWIN

- 201.<sup>1</sup> Histology.** 1st term. 6 Hrs. Lectures, 5 hours per week; laboratory, 12 hours per week. Staff
- 202.<sup>1</sup> Embryology.** 2nd term. 2 Hrs. Lectures, 2 hours per week; laboratory, 3 hours per week. Staff
- 211. The Histology and Development of the Skeletal System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature. Mr. Dodds
- 213. Advanced Embryology.** I or II. 2-5 Hrs. With special emphasis on early stages of development. Hours to be arranged. Open to properly qualified students. Mr. Godwin
- 381. Research in Microscopic or Developmental Anatomy.** I or II or Yr. 2-5 Hrs. Hours to be arranged. Elective. Open to properly qualified students. Staff

### Biochemistry

Associate Professor MACLACHLAN; Instructor MCKINSTRY

- 201.<sup>1</sup> Biochemistry.** 1st term. 6 Hrs. Lecture, 6 hours per week; laboratory, 12 hours per week. Staff
- 211. Advanced Biochemistry.** I or II. 2-5 Hrs. With special emphasis on biochemical methods. Hours to be arranged. Open to properly qualified students. Staff
- 239. General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of both animals and plants. PR: Inorganic and organic chemistry. Quantitative analysis desirable. Lecture, 2 hours; laboratory, 6 hours per week. Graduate students required to do one hour additional work per week for 4 hours' credit. Staff
- 381. Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students. Staff

### Bacteriology and Public Hygiene

Professor SPRAY; Instructor STANLEY

- 101. Pathogenic Bacteriology.** I. 5 Hrs. Required of pharmacy students. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours per week. Mr. Stanley
- 202.<sup>1</sup> Medical Bacteriology.** 2nd term. 5 Hrs. Lecture, 3 hours per week; laboratory, 12 hours per week. Staff
- 203.<sup>2</sup> Public Hygiene.** 2nd term. 2 Hrs. Lecture, 3 hours per week. Mr. Spray
- 211. Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students. Staff
- 381. Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 202 or equivalent. Staff

## Physiology

Professor VAN LIERE; Associate Professor NORTHUP; Instructor STICKNEY

101. **Elementary Physiology.** II. 4 Hrs. For pharmacy students. Lecture, 3 hours per week; laboratory, 3 hours per week.  
Mr. Northup and Mr. Stickney
- 202.<sup>1</sup> **Physiology.** 3rd term. 3 Hrs. Physiology of muscle and nervous system. Lecture, 3 hours per week; laboratory, 5 hours per week.  
Staff
- 203.<sup>2</sup> **Physiology.** 1st term. 7 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 7 hours per week; laboratory, 9 hours per week.  
Staff
211. **Seminar in Physiology.** Yr. No credit.  
Staff
212. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged.  
Dr. Van Liere
213. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged.  
Dr. Van Liere and Mr. Stickney
214. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged.  
Mr. Northup
381. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the Master of Science degree.

## Pathology

Professor FENTON; Assistant Professor DEANGELIS

- 201.<sup>2</sup> **General Pathology.** 1st term. 4 Hrs. Lecture, 3 hours per week; laboratory, 7 hours per week. Demonstrations. A study of general pathology, both gross and microscopic.  
Staff
- 202.<sup>2</sup> **Pathology of Infectious Granulomas and Tumors.** 2nd term. 4 Hrs. Lecture, 3 hours per week; laboratory, 8 hours per week. Demonstrations.  
Staff
- 203.<sup>2</sup> **Special Pathology.** 3rd term. 1 Hr. Lecture, 1 hour per week; laboratory, 3 hours per week. A study of special diseases, with gross and microscopic specimens from selected autopsies.  
Staff
- 204.<sup>2</sup> **Clinical Pathology.** 3rd term. 3 Hrs. A laboratory course in blood, gastric contents, urine, etc., and their pathological and clinical significance. Lecture, 3 hours per week; laboratory, 8 hours per week.  
Staff
211. **Pathology (Advanced).** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 201.  
Staff
381. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.  
Dr. Fenton

## Pharmacology

Associate Professor EMERSON; Instructor FINNEGAN; Lecturer TUCKER

- 202.<sup>2</sup> **Medical Pharmacology.** 1st term. 3 Hrs. Lecture, 6 hours per week.  
Staff
- 203.<sup>2</sup> **Medical Pharmacology and Pharmacodynamics.** 2nd term. 4 Hrs. Lecture, 3 hours per week; laboratory, 6 hours per week.  
Staff

211. **Biochemorphology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 202, or Chemistry 233 and 239. Staff
212. **Bicassay and Comparative Pharmacology.** I and II. 3 Hrs. Lectures and demonstrations, 2 hours per week; laboratory, 3 hours per week. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 202; or Chemistry 233 or 239 and Histology 201, or Pharmacy 110. Staff
213. **Introductory Therapeutics.** II. 1 Hr. Lecture, 1 hour per week. PR: Pharmacology 202. Mr. Emerson
214. **Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week, laboratory, 3 hours per week. PR: Physiology 202. Staff
381. **Research in Pharmacology.** I and II. 2-5 Hrs. Hours to be arranged. PR: Graduate status in physiology, chemistry, or agriculture. Mr. Emerson

## Medicine

Assistant Professors SLEETH<sup>1</sup>, DEANGELIS, MAXWELL, SUMMERS, and WHITTLESEY; Instructors SALKIN, JOHNSON, and STARKEY;  
Dr. CHANDLER, *Professor of Anatomy*

- 201.<sup>2</sup> **Physical Diagnosis.** Yr. 3 Hrs. 1st term: Demonstration of clinical cases, 2 hours per week. 2nd term: lecture, 1 hour per week; laboratory, 2 hours per week. 3rd term: lecture, 2 hours per week; practical work with patients, 2 hours per week. Hospital clerkship at Hopemont Sanitarium, 2 weeks. Credit at end of 3rd term. Staff
- 202.<sup>2</sup> **Introductory Medicine.** 2nd and 3rd terms. 2 Hrs. 2nd term: lecture, 1 hour per week; demonstration of clinical cases, 1 hour per week; 3rd term: lecture, 1 hour per week; demonstration of clinical cases, 3 hours per week. Medical clerkship at Hopemont Sanitarium, two weeks. Credit at end of 3rd term. Staff
- 204.<sup>2</sup> **History of Medicine.** 2nd term. No credit. A brief history of the development of medicine. Lecture, 1 hour per week. Dr. Chandler

## Introductory Surgery

Associate Professor PRIDE

- 201.<sup>2</sup> **Principles of Surgery.** 2nd and 3rd terms. 3 Hrs. 2nd term: lecture, 2 hours per week. 3rd term: lecture, 1 hour per week; demonstrations of clinical cases and operative technique, 2 hours per week. Credit at end of 3rd term. Dr. Pride

## Obstetrics

Professor VAN LIERE

- 201.<sup>2</sup> **Obstetrics.** 2nd term. 2 Hrs. An introductory course in obstetrics. Lecture, 3 hours per week. Dr. Van Liere

<sup>1</sup>On leave of absence for military service.

## THE LIST OF STUDENTS, 1942-43

Class Entering September 16, 1941, and Completing  
the Second Year, March 17, 1943

ALVAREZ, JOSEPH	Meadowbrook
A. B., West Virginia University, 1942.	
BROWN, DONALD PAINTER	Kingwood
A. B., West Virginia University, 1942.	
BULLARD, ARCH HUPP	Triadelphia
A. B., West Virginia University, 1941.	
CAIN, ALVIN LAFAYETTE	Fairmont
B. S., Bethany College, 1941.	
COOK, FRED WILLIAM	Follansbee
A. B., West Virginia University, 1942.	
CURRY, GEORGE ALEXANDER	White Sulphur Springs
A. B., West Virginia University, 1942.	
DODRILL, ROBERT MOORE	Welch
A. B., West Virginia University, 1942.	
EDMISTON, JOHN MCWHORTER	Buckhannon
B. S., West Virginia Wesleyan College, 1941.	
FANKHOUSER, RUSSELL LEWIS	Pine Grove
A. B., West Virginia University, 1942.	
HOGSHEAD, GEORGE WILLIAM	Mammoth
A. B., West Virginia University, 1942.	
HOUCK, CHARLES DOTSON	Lewisburg
A. B., West Virginia University, 1942.	
HUNT, RUSSELL BROOKS	Clendenin
A. B., West Virginia University, 1942.	
HYER, HARRY JACKSON	Sutton
A. B., West Virginia University, 1941.	
JACKSON, THOMAS WILLIAM	Piedmont
A. B., West Virginia University, 1941.	
McFARLAND, THOMAS CROWLEY	South Charleston
A. B., West Virginia University, 1942.	
McKEE, JOHN STROTHER	Martinsburg
A. B., West Virginia University, 1942.	
MALCOMB, NELLE EMILE	South Charleston
A. B., Marshall College, 1941.	
MEADOWS, EDMUND CURTIS	Montrose
A. B., Glenville State Teachers College, 1939.	
MILAM, DENVER FRANKLIN	Sissonville
A. B., West Virginia University, 1942.	
NOTTINGHAM, ROBERT JULIAN	Morgantown
B. S., West Virginia University, 1941.	
RANDOLPH, BRADY FITZ, JR.	Sutton
A. B., West Virginia University, 1942.	
REGER, ROBERT FULLER	Clarksburg
A. B., West Virginia University, 1942.	
RODGERS, ELLIE PARKER, JR.	Morgantown
A. B., West Virginia University, 1942.	
RUECKL, FRANK VICTOR, JR.	Weston
SMITH, HARRY CECIL	Clay
A. B., Ohio University, 1940.	
WADE, FRANKLIN GEORGE	Wellsburg
A. B., West Virginia University, 1941.	



## Class Entering June 1, 1942

BAILEY, KENNETH DALE .....	Clarksburg
BOONE, REECE RICHARD, JR. ....	Smithers
CHAMBERLAIN, ROBERT LUIKART .....	Parkersburg
B. S., West Virginia Wesleyan College, 1942.	
COMPTON, JOHN WALLACE .....	Ronceverte
FOX, LOIS LORRAINE .....	Smithburg
GOTSES, PAUL SPIRO .....	Fairmont
HALL, ROBERTA JEAN .....	Weston
A. B., West Virginia University, 1942.	
HAYDEN, GEORGE DOUGLAS .....	Huntington
ISNER, ROBERT BURNS .....	Elkins
B. S., Davis and Elkins College, 1942.	
JOSEPH, ALFRED .....	Whitesville
KAMONS, EDWIN JULIAN .....	Parkersburg
A. B., West Virginia University, 1942.	
LILLY, FREDERICK VIVAN .....	Montgomery
McFARLAND, FRANK KENNETH .....	Elm Grove
MALLAMO, FRANKLIN WILLIAM .....	Fairmont
MARRA, JOHN JAMES .....	Everettville
MAROVICH, SAMUEL .....	Weirton
NAMAY, ELLIOT MOSES .....	Charleston
PAINÉ, ALBERT JAMES .....	Morgantown
A. B., West Virginia University, 1942.	
PARSONS, ROBERT LARUE .....	Davis
RAPER, GEORGE THOMAS .....	Glendale
ROBISON, WILLIAM HARRY .....	Morgantown
SAMUELS, JAMES MILTON .....	Piedmont
SQUIRES, RUSSELL DILL .....	Fairmont
THOMPSON, ARCHIE CAREY .....	Charleston
THOMPSON, HARVEY JOHNSON .....	Princeton
A. B., West Virginia University, 1942.	
TUCKER, ELDON BRYANT, JR. ....	Morgantown
A. B., West Virginia University, 1942.	
WATERMAN, DAVID JOHN, JR. ....	Wheeling
A. B., West Virginia University, 1940.	
WHITE, ENOCH W., JR. ....	Jane Lew
B. S., West Virginia Wesleyan College, 1942.	
WILDMAN, HARVEY EUGENE .....	Fairmont
A. B., Fairmont State Teachers College, 1942.	
YOH0, DAVID EARL .....	Moundsville
A. B., West Virginia University, 1942.	

## Class Entering March 22, 1943

BERMAN, RALPH EPHRAM.....	Beckley
BING, JOHN PAUL.....	Mt. Hope
COUNTS, EDWARD FRANKLIN, JR.....	So. Charleston
CURRY, WYSON JUNIOR.....	Montgomery
B. S., W. Va. Institute of Technology, 1942.	
FLEMING, ARTHUR RAY.....	Buckhannon
FLESHMAN, ROBERT M.....	Huntington
A. B., Marshall College, 1933.	
GARRETT, GENEVIEVE M.....	Morgantown
A. B., West Virginia University, 1943.	
HEINLEIN, RUSSELL L.....	Sistersville
HOLCOMB, CHARLES WM.....	Sutton
HUTTON, ELIHU EUGENE.....	Huttonsville
B. S., Davis and Elkins, 1934.	
M. S., West Virginia University, 1940.	
KNOX, KENNETH RAVEN.....	Huntington
B. S., West Virginia Wesleyan College, 1943.	
LARRICK, ROBERT VERNON.....	Capon Bridge
A. B., Shepherd College, 1941.	
LEMON, GEORGE L.....	Lewisburg
LINDSEY, SHERMAN BRANCE.....	Philippi
MCCUNE, WILLIAM RICHARD.....	Gassaway
MCDONALD, JACK HOMER.....	Mt. Hope
B. S., West Virginia Wesleyan College, 1943.	
MATHIAS, JAMES DOLAN.....	Mathias
MORRIS, GEORGE LYLE, JR.....	Ameagle
PANTALONE, ALBERT.....	Farmington
A. B., West Virginia University, 1942.	
SATTERFIELD, EUGENE WARD.....	Fairmont
A. B., Fairmont State College, 1943.	
SKAGGS, JOSEPH THOMAS.....	Montgomery
STANSBURY, FRED, JR.....	Glen Daniel
STOOLFIRE, ARTHUR WALDO.....	Valley Grove
THIERS, GEORGE FREDERICK.....	Holidays Cove
TUCKER, JOHN W.....	Morgantown
WALLACE, RICHARD CUSTER.....	So. Charleston
WARD, CHARLES E.....	Morgantown
B. S., West Virginia University, 1941.	
WARNOCK, JACK WOODSON.....	Huntington
WEISS, WILLIAM W.....	Fairmont
ZEKAN, JOHN GEORGE.....	Brownnton

*Edward J. Van Zee*

# **West Virginia University Bulletin**

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## **ANNOUNCEMENTS THE SCHOOL OF MEDICINE THE 1944-45 SESSION**



**MORGANTOWN, WEST VIRGINIA**  
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**Issued Monthly**

# Year 1944

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1			1	2	3	4	5				1	2	3	4							1
2	3	4	5	6	7	8	6	7	8	9	10	11	12	5	6	7	8	9	10	11	2	3	4	5	6	7	8
9	10	11	12	13	14	15	13	14	15	16	17	18	19	12	13	14	15	16	17	18	9	10	11	12	13	14	15
16	17	18	19	20	21	22	20	21	22	23	24	25	26	19	20	21	22	23	24	25	16	17	18	19	20	21	22
23	24	25	26	27	28	29	27	28	29					26	27	28	29	30	31		23	24	25	26	27	28	29
30	31																				30						

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1							1	2	3												1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30	31		

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1	1	2	3	4	5	6	7							1	2	3	4	5	6	7	8
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30

# Year 1945

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6						1	2	3					1	2	3	4	5	6	7		
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31	29	30					

MAY							JUNE							JULY							AUGUST								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
						1							1	2												1	2	3	4
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11		
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18		
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27	28	29	30	31			24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	31			

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1							1	2	3												1
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
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23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
30																					30	31					

The days on which the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type,

# **The Medical School Calendar**

## **Subject to Change Without Notice**

On account of the national emergency the Medical School is operating on an accelerated schedule. Its calendar is different from the general University calendar.

### **Dates for Admission of Classes under Accelerated Program**

June 1 .....	1942	September 25 .....	1944
March 22 .....	1943	June 25 .....	1945
December 27 .....	1943		

## **CALENDAR**

### **Winter Term, 1943-44**

(New class enters)

Registration.....	December 27, Monday
First classes.....	December 28, Tuesday
Last classes.....	March 15, Wednesday
Examinations.....	March 16, Thursday, to March 18, Saturday, inclusive.

### **Spring Term, 1944**

Registration.....	March 27, Monday
First classes.....	March 28, Tuesday
Last classes.....	June 14, Wednesday
Examinations.....	June 15, Thursday, to June 17, Saturday, inclusive.

### **Summer Term, 1944**

Registration.....	June 26, Monday
First classes.....	June 27, Tuesday
Last classes.....	September 13, Wednesday
Examinations.....	September 14, Thursday, to September 16, Saturday, inclusive.

### **Autumn Term, 1944**

(New class enters)

Registration.....	September 25, Monday
First classes.....	September 26, Tuesday
Last classes.....	December 13, Wednesday
Examinations.....	December 14, Thursday, to December 16, Saturday, inclusive.

### **Winter Term, 1944-45**

Registration.....	December 26, Tuesday
First classes.....	December 27, Wednesday
Last classes.....	March 14, Wednesday
Examinations.....	March 15, Thursday, to March 17, Saturday, inclusive.

### **Spring Term, 1945**

Registration.....	March 26, Monday
First classes.....	March 27, Tuesday
Last classes.....	June 13, Wednesday
Examinations.....	June 14, Thursday, to June 16, Saturday, inclusive.

# West Virginia University

Morgantown

Established February 7, 1867

## The West Virginia Board of Control

TERM EXPIRES

JOSEPH Z. TERRELL, PRESIDENT, <i>Clarksburg</i> .....	June 30, 1949
DELL WHITE, SECRETARY, <i>Madison</i> .....	June 30, 1949
WILLIAM C. COOK, TREASURER, <i>Welch</i> .....	June 30, 1945

The West Virginia Board of Control has the direction of the financial and business affairs of the state educational institutions.

## The Board of Governors

TERM EXPIRES

ARTHUR BURKE KOONTZ, PRESIDENT, <i>Charleston</i> .....	June 30, 1944
AUSTIN V. WOOD, <i>Wheeling</i> .....	May 31, 1946
ELIZABETH LA NELLE AGEE, <i>Welch</i> .....	June 30, 1945
FREDERICK FRELINGHUYSEN McINTOSH, Jr., <i>Spencer</i> ..	June 30, 1945
HERBERT CHESTER GREER, <i>Morgantown</i> .....	June 30, 1944
ROBERT HOWARD PRITCHARD, <i>Weston</i> .....	June 30, 1946
THELMA SHAW, <i>Fairmont</i> .....	June 30, 1945
CHARLES THOMPSON NEFF, Jr., SECRETARY, <i>Morgantown</i>	

The Board of Governors has charge of the educational and administrative affairs of the University.



JARRETT PRINTING COMPANY, CHARLESTON, W. VA.

# The School of Medicine

## ADMINISTRATION

CHARLES ELMER LAWALL, E. M., M. S., LL. D., *President of the University.*  
EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Dean.*

## THE FACULTY

### Emeritus

JOHN NATHAN SIMPSON, A. B., M. D., F. A. C. P., *Dean Emeritus.*

### Professors

EDWARD JERALD VAN LIERE, B. A., M. S., M. D., PH. D., F. A. C. P., *Professor of Physiology.*  
GIDEON STANHOPE DODDS, B. A., M. A., PH. D., *Professor of Histology and Embryology.*  
CLEMENT COLEMAN FENTON, A. B., B. S., M. S., M. D., F. A. C. P., *Professor of Pathology and Clinical Pathology.*  
ROBB SPALDING SPRAY, B. S., M. S., PH. D., *Professor of Bacteriology and Public Hygiene.*  
SIMON B. CHANDLER, A. B., A. M., M. D., *Professor of Gross Anatomy and Neuro-anatomy.*  
GEORGE ALBERT EMERSON, A. B., M. S., PH. D., *Professor of Pharmacology.*  
PERCIVAL LLOYD MACLACHLAN, B. A., PH. D., *Professor of Biochemistry.*

### Associate Professors

DAVID WILMARTH NORTHUP, A. B., A. M., PH. D., *Associate Professor of Physiology.*  
CECIL BENJAMIN PRIDE, A. B., M. D., F. A. C. S., *Associate Professor of Surgery.*  
JEROME E. ANDES, B. S., M. S., PH. D., M. D.,<sup>2</sup> *Assistant Professor of Medicine.*  
JOHN JOSEPH LAWLESS, B. S., M. A., PH. D., M. D.,<sup>3</sup> *Associate Professor of Medicine.*

### Assistant Professors

GEORGE RALPH MAXWELL, B. S., M. D., F. A. C. P., *Assistant Professor of Medicine (Physical Diagnosis).*  
CLARK KENDALL SLEETH, A. B., B. S., M. D.,<sup>1</sup> *Assistant Professor of Medicine.*  
MELVIN CRAWFORD GODWIN, A. B., PH. D., *Assistant Professor of Histology and Anatomy.*  
EUGENE DEANGELIS, B. S., M. B., M. D., *Assistant Professor of Pathology.*  
FREDERICK RENDELL WHITTLESEY, A. B., M. D., F. A. C. P., *Assistant Professor of Medicine.*  
DAVID SALKIN, M. D., F. A. C. P., *Assistant Professor of Medicine (Physical Diagnosis).*

<sup>1</sup>On leave of absence for military service.

<sup>2</sup>Resigned March 31, 1944.

<sup>3</sup>Assumed duties April 1, 1944.

## Instructors

- JOHN CLIFFORD STICKNEY, B. S., M. S., PH. D., *Instructor in Physiology.*  
CARL EDWARD JOHNSON, A. B., B. S., M. D., F. A. C. P., *Instructor in Medicine.*  
ARCHIE LEMUEL STARKEY, B. S., M. D., *Instructor in Medicine (Physical Diagnosis).*  
GLENN DRAGER, B. S., M. S., PH. D., *Instructor in Anatomy.*  
JACK KING FINNEGAN, A. B., M. S., *Instructor in Pharmacology.*  
CHARLES LEWIS, A. B., M. S., *Instructor in Bacteriology.*  
HOSEA DEWAIN IRELAND, B. S., M. D., *Instructor in Medicine (Physical Diagnosis).*  
HAROLD HENRY TEITELBAUM, M. D., *Instructor in Medicine (Physical Diagnosis).*  
ARTHUR JOHN VIEHMAN, A. B., M. D., *Instructor in Medicine (Physical Diagnosis).*

## Assistant

- HECTOR HIRAM FILARDI, A. B., *Assistant in Biochemistry.*

## Lecturer

- ELDON BRYANT TUCKER, B. S., M. D., *Lecturer in Pharmacology (Anesthesiology).*

## Technicians

- FABRY LIVINGSTON HAWK, Reg. Med. Technologist, *Technician in University Health Service.*  
AILON BUFORD LINGAR, A. B.,<sup>1</sup> *Technician in University Health Service.*  
DAVID SAMUEL BARRICKMAN, B. S., M. S., *Technician in Anatomy and Histology.*  
CHARLES ERNEST HOLLANDSWORTH,<sup>1</sup> *Technician in the University Health Service.*  
VESTA EMILY ANDERSON, *Technician in Pathology.*  
JOHN MARSHALL NICHOLS, A. B., *Technician in Pathology.*  
ELIZABETH MARIE BOGER, A. B., *Technician in Pathology.*

## Clerical

- FLORENCE ELLIOTT WEAVER, *Secretary.*  
EDITH M. ROSS, *Assistant Secretary and Record Clerk.*

## THE UNIVERSITY HEALTH SERVICE

### Physicians

- JEROME E. ANDES, B. S., M. S., PH. D., M. D.,<sup>2</sup> *Director and Physician.*  
JOHN JOSEPH LAWLESS, B. S., M. A., PH. D., M. D.,<sup>3</sup> *Director and Physician.*  
SAMUEL JOHN MORRIS, M. D., *Physician and Medical Adviser to the Department of Athletics.*  
CLARK KENDALL SLEETH, A. B., B. S., M. D.,<sup>1</sup> *Physician.*  
EUGENE DEANGELIS, B. S., M. B., M. D., *Physician.*  
MARGARET STEMPLE, A. B., B. S., M. D., *Physician (part time).*

<sup>1</sup>On leave of absence for military service.

<sup>2</sup>Resigned March 31, 1944.

<sup>3</sup>Assumed duties April 1, 1944.



## Nurses

ETHEL FEATHER, *Nurse in the University Health Service.*

MARY STENGER, R. N., *Nurse in the University Health Service.*

ELSIE R. GUSEMAN, R. N., *Nurse in the University Health Service.*

Other nurses as needed for patients in infirmary.

## Clerical

HELEN CLARISSA O'NEILL, *Secretary in the University Health Service.*

## THE STANDING COMMITTEES

EXECUTIVE: E. J. VAN LIERE (*chairman*), G. S. DODDS, F. R. WHITTLESEY, and C. B. PRIDE.

ENTRANCE AND SCHOLARSHIP: G. S. DODDS (*chairman*), S. B. CHANDLER, G. E. EMERSON, C. C. FENTON, and P. L. MACLACHLAN.

LIBRARY: S. B. CHANDLER (*chairman*), G. S. DODDS, G. E. EMERSON, E. DEANGELIS, and P. L. MACLACHLAN.

RESEARCH: E. J. VAN LIERE (*chairman*), R. S. SPRAY, D. W. NORTHUP, G. E. EMERSON, and P. L. MACLACHLAN.

SEMINARS: S. B. CHANDLER (*chairman*), E. DEANGELIS, J. C. STICKNEY, C. C. FENTON, and E. J. VAN LIERE.

CLINICAL AND SPECIAL FACILITIES: C. B. PRIDE (*chairman*), C. C. FENTON, G. R. MAXWELL, E. DEANGELIS, and F. R. WHITTLESEY.

CURRICULUM: G. S. DODDS (*chairman*), E. DEANGELIS, P. L. MACLACHLAN, and E. J. VAN LIERE.

## **GENERAL INFORMATION**

### **SPECIAL NOTICE (AS OF APRIL 1, 1944)**

The School of Medicine has been operating on an accelerated schedule since June 1, 1942, so that the University may play its part in the more rapid training of physicians needed in the present national emergency. Under this plan the long summer vacation has been eliminated. The academic year is divided into three terms instead of two semesters as formerly. A new class is admitted every nine months, and a student completes the two years' work within eighteen calendar months after entrance. The plan followed is essentially the same as that adopted by the majority of medical schools in this country. This school plans to continue this schedule as long as the need exists, but it is probable that from time to time certain modifications may be necessary to adapt it to changing conditions.

The Committee on War Activities of the Association of American Medical Colleges is in constant touch with the appropriate Federal authorities and keeps medical schools informed of the means by which they may meet the changing needs of the national emergency. At present nearly all the men in the medical schools of the United States are enlisted in either the Army or the Navy and are being sent to medical schools by these services. Increasing Federal restrictions have made admission to medical school a very uncertain matter. Those interested should write to the Dean of the Medical School. For further statements on this matter see under "Requirements for Admission" on page 13.

### **Instruction in Medicine**

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### **Agreement With Medical College of Virginia**

Only the first two years of medicine are given at West Virginia University. There has been made an agreement with the Medical College of Virginia at Richmond for the transfer of as many as twenty students, residents of West Virginia, who have completed the first two years at West Vir-

ginia University. At the Medical College of Virginia these students will pay the same tuition as paid by the residents of Virginia. Upon graduation, diplomas will be issued jointly by the two schools. Other students in the class may, as in the past, transfer to various medical schools for the completion of their work.

## **Buildings and Equipment**

### **THE MEDICAL BUILDING, LABORATORIES, AND CLASSROOMS**

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the Dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in a separate building.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center: a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

### **LIBRARY**

The Medical Library is not organized as a separate unit but is housed in the University Library Building, where publications of prime importance to the students and Faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building, which is closely adjacent to the Library Building. Additional current issues of essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 13,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with the pre-clinical fields for the most part but comprising also the better representative works in internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and the history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, the Library of Congress, or other libraries. Complete sets of various

abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library, and a member of the Staff also represents the School of Medicine on the general Library Committee of the University.

### **LIVING ACCOMMODATIONS**

The University maintains two large dormitories, one for men and one for women. Cost of room and board in the dormitory for men ranges from \$324 to \$396 per academic year of nine months; in the dormitory for women, from \$345 to \$400 per academic year. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Director of Residences and Commons, West Virginia University, Morgantown. Because of Government occupation of the dormitory for men, reservations in this hall cannot be made for the duration.

Medical students, in the main, must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For further information concerning houses on the approved list, men should address the office of Mr. H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University.

### **COST OF A YEAR'S WORK**

Textbooks and supplies will cost about \$50 to \$75 per academic year. Registration fees for residents are \$255; for non-residents, \$405 per academic year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month session for medical students in residence will range from \$750 to \$950, exclusive of traveling expenses.

### **LOANS FOR MEDICAL STUDENTS**

It frequently happens that students otherwise well qualified for the study of medicine are short of funds to defray the necessary expenses. For the assistance of such students there are available certain loans, some specifically for medical students, others available to students of all colleges in the University. For information about loans, inquiries should be made to Mr. Harry E. Stone, Secretary, Committee on Prizes, Scholarships, and Loan Funds, West Virginia University, Morgantown.

### **The University Health Service**

The University Health Service, which is a part of the organization of the School of Medicine, is maintained to provide medical service to the students of the University and to supervise the general health conditions on the cam-

pus. Since March, 1943, the Health Service has had the care of about 1,300 service men in uniform, who have been in residence as students of the University, in addition to the regular civilian students. The Staff has included three physicians, about seven nurses, and two laboratory technicians. The University Pharmacy, where students may secure medicine, is managed by the College of Pharmacy. The Departments of Pathology and Bacteriology cooperate in the laboratory examination of diagnostic materials.

Each regularly enrolled University student pays a fee which provides for medical consultation and advice from the University Physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, minor operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. Hospital insurance is included in the student's medical fees. This service covers the cost of routine hospital care in the local hospitals for an aggregate of thirty days in each school year. This insurance does not cover professional fees which might arise in connection with such hospitalization. When a student enters the University for the first time, he receives a complete physical examination, which includes a blood test, urine analysis, and tuberculin test. The Health Service also gives special physical examinations to students in competitive athletics, to University food handlers, to employees of buildings and grounds, and to other groups as occasion may arise.

The Health Service occupies a well-designed University Health Center constructed in 1941. This three-story building is centrally located on the campus, fronting on College Avenue adjacent to Reynolds Hall. It is a T-shaped structure of brick and concrete, with a front width of 88 feet and a depth of 68 feet.

On the first floor are the receiving room; the office of the secretary; offices for three physicians; a room for minor surgery; rooms for treatments and for the various forms of physiotherapy; a room for basal metabolism readings and electro-cardiograms; and a consultation and reading room for physicians. One room on this floor is assigned to the University Pharmacy for the dispensing of drugs to students.

On the second floor is the diagnostic laboratory with adequate equipment for making tests and analyses. The X-ray equipment is housed in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor also are rooms occupied by the Department of Pathology of the School of Medicine, including a good-sized student laboratory, the pathological museum, a preparation room, a stock room, and the necessary offices and private laboratories. The members of the Department staff cooperate with the Health Service Laboratory in diagnostic work.

The third floor is designed for the hospitalization of students. On the main corridor are rooms accommodating sixteen hospital beds. In the rear wing, on a private corridor, are two isolation wards with seven beds for contagious cases. This corridor has its own bath, toilet, diet kitchen, and utility room. This floor also includes a three-room suite designed to serve as living quarters for nurses. Beginning with March 1943, the third floor has been utilized for the hospitalization of men in the armed forces who have been taking work in the University.

## Clinical and Special Facilities

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine:

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the Heiskell Memorial Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia County, the Department of Pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the Heiskell Memorial Hospital, the Monongalia General Hospital, and the Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

## Seminar

On alternate Friday afternoons at 4 o'clock there is held a seminar, attended by Faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the Faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

## Journal Club

The Journal Club, organized by the Faculty of the School of Medicine, meets once each week during the Fall, Winter, and Spring terms. At each meeting a member presents for discussion a report of outstanding papers published in his field of interest. Students and Faculty are invited to attend and to join in the discussions.

## **Organizations and Lectureships**

### **ALUMNI ASSOCIATION**

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

### **JOHN N. SIMPSON LECTURESHIP**

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, now Dean Emeritus of the School of Medicine, giving an annual lecture by someone distinguished in medical research or practice.

## **REQUIREMENTS FOR ADMISSION**

### **Enlisted Men**

The classes up to and including the one to register in September 1944 have been chosen by the School, almost wholly on a civilian basis. However, nearly all the male students since June 1942 have enlisted in either the Army or the Navy and are receiving their medical education under the provisions of contracts between these two services and West Virginia University. According to these contracts, a considerable percentage of the students in the class to enter in the year 1945 will be assigned to the Medical School from men trained in the pre-medical programs of the Army (ASTP) and the Navy (V-12). The extent and content of these pre-medical curricula are determined in conference between representatives of the armed forces and the two accrediting agencies for medical schools (the Council on Medical Education and Hospitals of the American Medical Association, and the Association of American Medical Colleges). The individual medical schools will have practically no choice of students nor voice in the nature of the pre-medical training of these students. As far as can be foreseen at the present time, the only access to medical schools during the year 1945, for men qualified for military services will be by way of the ASTP and the V-12 programs. These regulations are subject to frequent modification. Persons interested should consult the chairman of the Committee on Entrance.

### **Civilian Students**

The Army and Navy contracts with medical schools leave a quota in the entering class of each medical school for which the school may select civilian students who may be able to secure deferment from military service. Although the two accrediting agencies of medical schools have authorized the admission of students with a minimum of two years (60 semester hours), the Medical School of West Virginia University hopes to maintain for civilian applicants the same entrance requirements as in the past. These are stated below. Applications for admission are passed upon by the Committee on Entrance and Scholarship, composed of five members of the Faculty of the School.

## 1. How to Apply for Admission

Applications for admission must be made upon blanks which may be obtained from the Dean's office upon request. No application will be considered until the Dean's office has received a complete, official transcript of all high-school and college work, including a statement of honorable dismissal. Such records should include a statement of the courses in progress at the time of application, and the applicant should have sent to the Medical School official records of all courses subsequently completed.

It is the responsibility of the applicants (except those in residence at West Virginia University) to have all the above records forwarded to the Dean of the Medical School. After certificates have been considered by the Committee on Entrance and the credits recorded, the certificates become the property of the University and are filed permanently in the Registrar's office.

## 2. When to apply for admission

Owing to the present general uncertainty, applications should be made a year in advance if possible. Applications will be considered as long as there are vacancies.

## 3. Date of Notification of Action of Entrance Committee

During the present war emergency, no dates can be set for notification of action of the Entrance Committee. Applicants will be kept informed from time to time.

## 4. Advance Deposit Fee

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first term. If this fee is not received within ten days after the date of the acceptance notice, the place will be considered open to other applicants. Checks must be made payable to West Virginia University. If the applicant fails to enter the School of Medicine, this deposit is not returnable.

## 5. Residence

Preference is given to residents of West Virginia. For the past several years the resident applicants have been so numerous that there have been no places available for non-residents.

## 6. Scholarship

The number of students that can be admitted is definitely limited. In selecting students to fill the available places, preference will be given to applicants of high scholarship. The school reserves the right to reject any applicants whose pre-medical records are unsatisfactory in quality of scholarship. For several years all places have been filled with students whose average grade was above "C".

In computing average grades of students applying for admission to the School of Medicine, grades are expressed in numerical points per semester hours as follows:

A .....	3	D .....	0
B .....	2	E .....	minus 1
C .....	1	F .....	minus 2



These values are applied to all courses (military and physical education excepted) in all institutions attended. The value of minus 1 applies to a grade of E whether this grade is subsequently changed to a passing grade or to a failure. When grades are expressed in a system different from the one used at West Virginia University, the values will be adjusted to give an equivalent measure of accomplishment.

## 7. Medical Aptitude Test

Applicants are required to take the aptitude test approved by the Association of American Medical Colleges, given at announced dates in all colleges preparing students for the study of medicine. The rating in this test will be considered in determining the fitness of the applicant.

## 8. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Entrance considers such readmissions justified.

## 9. Age

Applicants must be at least 18 years of age at the time of entrance to the Medical School.

## 10. Subject Requirements for Admission

All applicants must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college.

A detailed statement of such requirements follows:

### Secondary-School Credits Required

**Secondary-School Unit.** A unit in any subject represents the amount of work that may be done in a standard high school in a year of 36 weeks, with five recitations each week of no less than 40 minutes each. In courses where laboratory work is required, from two to three hours of laboratory work are considered the equivalent of one hour of recitation, according to the amount of outside preparation required in connection with such work.

For admission to the School of Medicine the applicant must have credit for 15 units of high-school work, as follows:

1. English .....	4 units*
2. A second subject .....	3 units
3. Mathematics .....	
Algebra .....	1 unit
Plane geometry .....	1 unit
4. One other subject .....	2 units
5. Other subjects .....	4 units

The School of Medicine strongly urges that applicants have two units of Latin.

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\*Students who present only 3 units of English for entrance are required to take 6 hours of college English in addition to the 6 hours required for entrance.

## College Credits Required

In addition to the high-school requirements, applicants must have credit for at least three years' work in a college of recognized standing. This must include 90 semester hours, exclusive of military science and physical education. For statement about pre-medical curricula, see page 19.

Preference is given to applicants whose pre-medical collegiate work was taken in approved colleges of arts and sciences or junior colleges included in the list published by the Council on Medical Education and Hospitals of the American Medical Association.

**College Credit.** A college credit or semester hour represents the amount of work done in one semester in one recitation hour, with two preparation hours a week. From two or three hours of laboratory work are considered equivalent to one hour of recitation, according to the amount of outside work assigned in connection with the laboratory hour.

The following subjects and hours are the minimum requirements for admission. They must be met in full:

English composition and rhetoric .....	6 hours
Physics .....	8 hours
Biological sciences .....	12 hours
(Should be mainly zoology and should include comparative anatomy of the vertebrates.)	
Chemistry .....	20 hours
(Six hours must be organic chemistry)	
Psychology .....	3 hours
A modern foreign language .....	12 hours
(German or French preferred.)	
Electives to meet the required number of hours.	

Courses in biological sciences and chemistry should not include subjects that are in any sense a duplication of courses given in medical school (e. g., human anatomy, biological chemistry, human physiology, etc.). Such courses cannot be accepted as satisfying any part of the entrance requirements in those fields.

Mathematics is strongly recommended. Algebra and trigonometry should be taken early enough that they may be useful in the courses in physics and chemistry.

The 12 hours of modern language must be taken in one language. Applicants who have had two units in high school may satisfy the requirement by taking 6 hours of advanced college work in the same language.

Applicants who have not had Latin in high school are urged to take a year of Latin in college.

As electives the following subjects are suggested: Botany, economics, genetics, history, mathematics, sociology; advanced work in English composition, chemistry, physics, psychology, and zoology. It should be the aim of the student to gain a broad education, containing much training of general importance, rather than to confine his efforts to the required pre-medical sciences. Pre-medical electives should not include subjects that are later to be taken in medical school but should consist of subjects that will not again be available.

## REGISTRATION

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each term, as announced in the calendar on page 3 of this Bulletin.

No student will be permitted to register in the School of Medicine after the first week of classes.

### Departure from Scheduled Work

Students must register for all the prescribed courses for each term, except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## FEEES

All fees are due and payable at the office of the Comptroller on the day of registration.<sup>1</sup> Students registering in the School of Medicine pay the following:

### Advance Deposit Fee

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list for registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first term. In the event of the failure of the applicant to enter the School of Medicine this deposit fee is forfeited by the applicant.

### Tuition and Other Fees

	<i>Resident<sup>2</sup></i>	<i>Non-Resident<sup>3</sup></i>
University Fees and Tuition (per term).....	\$85.00	\$135.00
Part-time students (per semester hour) <sup>2</sup> .....	8.00	12.50

<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the registrar shall notify their instructors that their class cards are to be withdrawn.

<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during a term. A part-time student is one who is registered for fewer than 10 semester hours per term.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicil in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicil of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicil in this State, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicil for such student.

## SPECIAL FEES

Late registration <sup>1</sup> .....	\$ 2.00
Diploma fee <sup>2</sup> .....	10.00
Student's record fee <sup>3</sup> .....	1.00
Breakage deposit .....	10.00

## REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University:

	<i>Amount of Refund</i>
During the first and second weeks .....	All fees less \$3.00
During the third and fourth weeks .....	80% of fees
During the fifth and sixth weeks .....	60% of fees
During the seventh and eighth weeks .....	40% of fees
Beginning with ninth week .....	No refunds allowed

## STANDARDS OF SCHOLARSHIP

### Grading and Honor Points

- A—Excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above the average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—Condition<sup>4</sup>
- F—failure
- FIW—failure because of irregular withdrawal
- I—incomplete<sup>5</sup>
- W—all withdrawals prior to the end of the second week following the date set for mid-semester reports
- WP—withdrawn passing after the end of the second week following the date set for mid-semester reports
- WF—withdrawn failing after the end of the second week following the date set for mid-semester reports

The quality of a student's work shall be expressed in honor points, which are based only on grades earned in West Virginia University. All courses taken in this institution which are offered toward credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of 1 honor point per credit-hour to be eligible for graduation.

<sup>1</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 3.

<sup>2</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>3</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

<sup>4</sup>A mark of "E" not removed within the following term becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a C shall be recorded for the removal of a condition.

<sup>5</sup>If a grade of "I" is not removed within the following term by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

## **Removal of Conditions**

Examinations for the removal of conditions may not be taken immediately upon notification of the grade, but only after reasonable time for supplementary study, and on dates approved by the Scholarship Committee of the School of Medicine.

Students wishing to take such examinations should make application to the professor concerned, and should secure at the Dean's office a "condition removal" card.

## **Promotions and Suspensions**

Any student who fails or conditions all of his work for any term is thereby indefinitely suspended.

Any student who fails to make passing grades in at least half the total number of hours for which he was registered in any two consecutive terms is thereby indefinitely suspended.

A student who during his first year does not make a grade of C or better in at least half of the scheduled credit hours for the year may not register for second-year courses except by special permission of the Scholarship Committee.

A student who at the end of the first year has aggregate failures of as much as five semester hours will not be allowed to register for second-year work unless such deficiency is removed by repeating the work in an acceptable school.

## **Withdrawals**

A student who wishes to withdraw during the term should do so in regular manner. Consult the Dean's office for the steps which must be taken.

## **REQUIREMENTS FOR DEGREES**

The School of Medicine gives no degrees in medicine, except as noted on page 7, inasmuch as only the first two years of medicine are given. It, however, cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree, upon the completion of the two years of medical work, to those students who comply with certain requirements of the College of Arts and Sciences.

## **PRE-MEDICAL CURRICULA**

In view of the war emergency it is impossible to anticipate just what form pre-medical education will take in the immediate or more remote future. Without doubt, changes of various kinds will become necessary. The following paragraphs express the ideals which have guided pre-medical education at West Virginia University in recent years. Such changes as may be made will be for the purpose of enabling the pre-medical program and the School of Medicine to serve more adequately the needs of the present hour.

The administration of the School of Medicine strongly recommends that those students who are able to do so will continue to avail themselves of the fullest possible training for taking up the study of medicine, thus compensating in a measure for the loss incurred by those who of necessity must enter with a foundation in some respects less adequate than that of former years.

In keeping with the need for good pre-medical training, West Virginia University, through its pre-medical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia University to give special pre-medical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude of choice of electives in other departments, so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Upon the completion of the four-year pre-medical curriculum, students receive the A. B. degree in the College of Arts and Sciences. Students who enter the School of Medicine after the third year receive the A. B. degree at the end of the first year of medicine.

Another pre-medical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B. S. degree in pharmacy. For information concerning this course, inquiries should be addressed to the Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.

## THE MEDICAL CURRICULUM

The following courses and hours are required of all medical students.  
The length of a term is 12 weeks including the final-examination periods.

### The Schedule of Courses

The Schedule of Courses							Semester Hours	Credit
Hrs. per week			Hrs. per term					
	Lect.	Lab.	Total	Lect.	Lab.	Total		
FIRST YEAR—FIRST TERM								
Histology 201 .....	5	12	17	60	144	204	6	
Gross Anatomy 200 .....	4	14	18	48	168	216	6	
FIRST YEAR—SECOND TERM								
Gross Anatomy 201 .....	1	5	6	12	60	72	2	
Biochemistry 202 .....	3	6	9	36	72	108	3	
Medical Bacteriology 202...	3	12	15	36	144	180	5	
Embryology 202 .....	2	3	5	24	36	60	2	
FIRST YEAR—THIRD TERM								
Gross Anatomy 202 .....	2	7	9	24	84	108	3	
Neuro-anatomy 203 .....	3	5	8	36	60	96	3	
Biochemistry 203 .....	3	6	9	36	72	108	3	
Physiology 202 .....	3	5	8	36	60	96	3	
SECOND YEAR—FIRST TERM								
Physiology 203 .....	5	6	11	60	72	132	5	
General Pathology 201 ...	2	5	7	24	60	84	3	
Pharmacology 202 .....	5	6	11	60	72	132	4	
Public Hygiene 203 .....	3	—	3	36	—	36	2	
Physical Diagnosis 201 ...	—	2	2	—	24	24	*	
SECOND YEAR—SECOND TERM								
Applied Anatomy 204 ....	2	4	6	24	48	72	2	
Physiology 204 .....	2	3	5	24	36	60	2	
Special Pathology 202 ....	2	6	8	24	72	96	3	
Pharmacology 203 .....	4	—	4	48	—	48	3	
Obstetrics 201 .....	3	—	3	36	—	36	2	
History of Medicine 204 ...	1	—	1	12	—	12	0	
Physical Diagnosis 201 ...	1	2	3	12	24	36	*	
Medicine 202 .....	1	1	2	12	12	24	*	
Principles of Surgery 201.	2	—	2	24	—	24	*	
SECOND YEAR—THIRD TERM								
Tumor Pathology 203 ....	3	7	10	36	84	120	3	
Clinical Pathology 204 ....	3	8	11	36	96	132	3	
Physical Diagnosis 201 ...	2	2	4	24	24	48	3	
Medicine 202 .....	1	3	4	12	36	48	2	
Principles of Surgery 201 ..	1	2	3	12	24	36	3	

\*Credit at end of third term.

## DAY AND HOUR SCHEDULE

### First Year—First Term. Winter 1943-44.

	8	9	10	11	12	1	2	3	4	
M	Histol.	Histology					Anatomy			
T	Histol.	Histology					Anatomy			
W	Histol.	Anatomy								
Th	Histol.	Histology					Anatomy			
F	Histol.	Histology					Anatomy			
S	Anatomy									

### First Year—Second Term. Spring 1944

	8	9	10	11	12	1	2	3	4	
M	Biochem.	Biochemistry					Bact.	Bacteriology		
T	Embryol.	Anatomy					Bacteriology			
W	Biochem.	Embryology					Bact.	Bacteriology		
Th	Embryol.	Anatomy					Bacteriology			
F	Biochem.	Biochemistry					Bact.	Bacteriology		
S										

### First Year—Third Term. Summer 1944.

	8	9	10	11	12	1	2	3	4	
M	Biochem.	Biochemistry					Anatomy			
T	Neuro-Anatomy			Physiol.			Physiol.	Physiology		
W	Biochem.	Physiol.	Neuro-Anatomy				Anatomy			
Th	Neuro-Anatomy			Physiol.			Physiology			
F	Biochem.	Biochemistry					Anatomy			
S										



## DAY AND HOUR SCHEDULE

### Second Year—First Term. Winter 1943-44.

8	9	10	11	12	1	2	3	4	5
	Physiol.	P. Hyg.	Pharm.			Pharmacology			
Pharm.	Physiol.	P. Hyg.	Pathology			Physiology			
Pharm.	Physiol.	Pathology				Pharmacology			
Pharm.	Physiol.	P. Hyg.	Pathology			Physiology			
Phys. Diagnosis		Pharm.	Physiol.			Pathology			

### Second Year—Second Term. Spring 1944.

8	9	10	11	12	1	2	3	4	5
	Path.	Pharm.	Obstet.			Physiology			
P. Diag.	Physiol.	Pharm.	Surgery			Pathology			
Med.	Pathol.	Pharm.	Obstet.			Applied Anatomy			
Med.	Physiol.	Pharm.	Surgery			Pathology			
P. Diag.		H. Med.	Obstet.			Applied Anatomy			

### Second Year—Third Term. Summer 1944.

8	9	10	11	12	1	2	3	4	5
	P. Diag.	Cl. Path.	Med.			Pathol.	Pathology		
Medicine			Surgery			Clinical Pathology			
Surgery			Cl. Path.			Pathology			
	P. Diag.	Cl. Path.	Path.			Clinical Pathology			
Phys. Diag.		Clinical Path.				Pathol.	Pathology		

## COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester.

II—a course offered during the second semester.

I, II—a semester course offered each semester.

Yr.—a continuous course extending through two semesters.

Hrs.—Number of semester hours credit per course.

NOTE—Courses marked “1” are required of first-year students; those marked “2” are required of second-year students.

Under the accelerated program of the School of Medicine the work of the academic year is divided into three terms instead of two semesters as it is in the rest of the University. The credits are, however, reported in semester hours in conformity with the general University practice.

In addition to the required courses there are listed some elective courses for the benefit of the occasional advanced student who may need them. These courses are still described under the semester plan. They are given only when, in the opinion of the department concerned and of the Dean, it is considered advisable. If these should arise a demand for any of these courses, the Medical School will try to meet the need, but the schedule will be contingent upon the extent to which staff members are occupied with the required medical courses.

On the following pages those staff members who are designated by the title “Dr.” have the M. D. degree. All others, most of whom have the Ph. D. degree, are designated as “Mr.” in accordance with the custom in University publications.

### Gross Anatomy and Neuro-anatomy

Professor CHANDLER; Assistant Professor GODWIN; Instructor DRAGER

- 200.<sup>1</sup> **Gross Anatomy.** 1st term. 6 Hrs. Lectures, 4 hours per week; laboratory, 14 hours per week. Staff
- 201.<sup>1</sup> **Gross Anatomy.** 2nd term. 2 Hrs. Continuation of anatomy 200, lecture, 1 hour per week; laboratory, 5 hours per week. Staff
- 202.<sup>1</sup> **Gross Anatomy.** 3rd term. 3 Hrs. Continuation of anatomy 201, lecture, 2 hours per week; laboratory, 7 hours per week. Staff
- 203.<sup>1</sup> **Neuro-anatomy.** 3rd term. 3 Hrs. Lectures, 3 hours per week; laboratory, 5 hours per week. Staff
- 204.<sup>2</sup> **Applied Anatomy.** 2nd term. 2 Hrs. Lecture, 2 hours per week; laboratory, 4 hours per week. Dr. Chandler
211. **Anatomy of the Sympathetic Nervous System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler
212. **Applied Anatomy of the Pelvis and Perineum.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Staff
381. **Advanced Anatomy.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler

## Histology and Embryology

Professor DODDS; Assistant Professor GODWIN

- 201.<sup>1</sup> Histology.** 1st term. 6 Hrs. Lectures, 5 hours per week; laboratory, 12 hours per week. Staff
- 202.<sup>1</sup> Embryology.** 2nd term. 2 Hrs. Lectures, 2 hours per week; laboratory, 3 hours per week. Staff
- 211. The Histology and Development of the Skeletal System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature. Mr. Dodds
- 213. Advanced Embryology.** I or II. 2-5 Hrs. With special emphasis on early stages of development. Hours to be arranged. Open to properly qualified students. Mr. Godwin
- 381. Research in Microscopic or Developmental Anatomy.** I or II or Yr. 2-5 Hrs. Hours to be arranged. Elective. Open to properly qualified students. Staff

## Biochemistry

Professor MACLACHLAN

- 202.<sup>1</sup> Biochemistry.** 2nd term. 3 Hrs. Lecture, 3 hours per week; laboratory, 6 hours per week. Staff
- 203.<sup>1</sup> Biochemistry.** 3rd term. 3 Hrs. Continuation of biochemistry 202. Lecture, 3 hours per week; laboratory, 6 hours per week. Staff
- 211. Advanced Biochemistry.** I or II. 2-5 Hrs. With special emphasis on biochemical methods. Hours to be arranged. Open to properly qualified students. Staff
- 239. General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of both animals and plants. PR: Inorganic and organic chemistry. Quantitative analysis desirable. Lecture, 2 hours; laboratory, 6 hours per week. Graduate students required to do one hour additional work per week for 4 hours' credit. Staff
- 381. Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students. Staff

## Bacteriology and Public Hygiene

Professor SPRAY; Instructor LEWIS

- 101. Pathogenic Bacteriology.** I. 5 Hrs. Required of pharmacy students. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours per week. Mr. Lewis
- 202.<sup>1</sup> Medical Bacteriology.** 2nd term. 5 Hrs. Lecture, 3 hours per week; laboratory, 12 hours per week. Staff
- 203.<sup>2</sup> Public Hygiene.** 1st term. 2 Hrs. Lecture, 3 hours per week. Mr. Spray
- 211. Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students. Staff
- 381. Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 202 or equivalent. Staff

## Physiology

Professor VAN LIERE; Associate Professor NORTHUP; Instructor STICKNEY

101. **Elementary Physiology.** II. 4 Hrs. For pharmacy students. Lecture, 3 hours per week; laboratory, 3 hours per week.  
Mr. Northup and Mr. Stickney
- 202.<sup>1</sup> **Physiology.** 3rd term. 3 Hrs. Physiology of muscle and nervous system. Lecture, 3 hours per week; laboratory, 5 hours per week.  
Staff
- 203.<sup>2</sup> **Physiology.** 1st term. 5 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours per week.  
Staff
- 204.<sup>2</sup> **Physiology.** 2nd term. 2 Hrs. Continuation of Physiology 203. Lecture, 2 hours per week; laboratory, 3 hours per week.  
Staff
211. **Seminar in Physiology.** Yr. No credit.  
Staff
212. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged.  
Dr. Van Liere
213. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged.  
Dr. Van Liere and Mr. Stickney
214. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged.  
Mr. Northup
381. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the Master of Science degree.  
Staff

## Pathology

Professor FENTON; Assistant Professor DEANGELIS

- 201.<sup>2</sup> **General Pathology.** 1st term. 3 Hrs. Study of general pathology, both gross and microscopic, with demonstrations. Lecture, 2 hours per week; laboratory, 5 hours per week.  
Staff
- 202.<sup>2</sup> **Special Pathology.** 2nd term. 3 Hrs. A study of special diseases with gross and microscopic specimens from selected autopsies. Lecture, 2 hours per week; laboratory, 6 hours per week.  
Staff
- 203.<sup>2</sup> **Pathology of Infectious Granulomas and Tumors.** 3rd term. 3 Hrs. Lecture, 3 hours per week; laboratory, 7 hours per week. Demonstrations.  
Staff
- 204.<sup>2</sup> **Clinical Pathology.** 3rd term. 3 Hrs. A laboratory course in blood, gastric contents, urine, etc., and their pathological and clinical significance. Lecture, 3 hours per week; laboratory, 8 hours per week.  
Staff
211. **Pathology (Advanced).** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 201.  
Staff
381. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.  
Dr. Fenton

## Pharmacology

Professor EMERSON; Instructor FINNEGAN; Lecturer TUCKER

- 202.<sup>2</sup> **Medical Pharmacology.** 1st term. 4 Hrs. Lecture, 5 hours per week; laboratory, 6 hours per week.  
Staff
- 203.<sup>2</sup> **Medical Pharmacology and Pharmacodynamics.** 2nd term. 3 Hrs. Continuation of Pharmacology 202. Lecture, 4 hours per week. Staff
211. **Biochemorphology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 202, or Chemistry 233 and 239. Staff

212. **Bioassay and Comparative Pharmacology.** I and II. 3 Hrs. Lectures and demonstrations, 2 hours per week; laboratory, 3 hours per week. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 202; or Chemistry 233 or 239 and Histology 201, or Pharmacy 110. Staff
213. **Introductory Therapeutics.** II. 1 Hr. Lecture, 1 hour per week. PR: Pharmacology 202. Mr. Emerson
214. **Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week, laboratory, 3 hours per week. PR: Physiology 202. Staff
381. **Research in Pharmacology.** I and II. 2-5 Hrs. Hours to be arranged. PR: Graduate status in physiology, chemistry, or agriculture. Mr. Emerson

### Medicine

Associate Professor ANDES; Assistant Professors SLEETH,<sup>1</sup> DEANGELIS, MAXWELL, WHITTLESEY, and SALKIN; Instructors JOHNSON, STARKEY, IRELAND, VIEHMAN, and TEITELBAUM. Dr. CHANDLER, Professor of Anatomy

- 201.<sup>2</sup> **Physical Diagnosis.** Yr. 3 Hrs. 1st term: Demonstration of clinical cases, 2 hours per week. 2nd term: lecture, 1 hour per week; laboratory, 2 hours per week. 3rd term: lecture, 2 hours per week; practical work with patients, 2 hours per week. Hospital clerkship at Hopemont Sanitarium, 2 weeks. Credit at end of 3rd term. Staff
- 202.<sup>2</sup> **Introductory Medicine.** 2nd and 3rd terms. 2 Hrs. 2nd term: lecture, 1 hour per week; demonstration of clinical cases, 1 hour per week; 3rd term: lecture, 1 hour per week; demonstration of clinical cases, 3 hours per week. Medical clerkship at Hopemont Sanitarium, two weeks. Credit at end of 3rd term. Staff
- 204.<sup>2</sup> **History of Medicine.** 2nd term. No credit. A brief history of the development of medicine. Lecture, 1 hour per week. Dr. Chandler

### Introductory Surgery

Associate Professor PRIDE

- 201.<sup>2</sup> **Principles of Surgery.** 2nd and 3rd terms. 3 Hrs. 2nd term: lecture, 2 hours per week. 3rd term: lecture, 1 hour per week; demonstrations of clinical cases and operative technique, 2 hours per week. Credit at end of 3rd term. Dr. Pride

### Obstetrics

Professor VAN LIERE

- 201.<sup>2</sup> **Obstetrics.** 2nd term. 2 Hrs. An introductory course in obstetrics. Lecture, 3 hours per week. Dr. Van Liere

<sup>1</sup>On leave of absence for military service.

## THE LIST OF STUDENTS, 1943-44

### Class Entering December 27, 1943

BERRY, RICHARD WAITMAN .....	V-12	Flatwoods
COFFIELD, ELMOND LEMOYNE .....	ASTP	Morgantown
FERRARA, EMIL JOSEPH .....	ASTP	Morgantown
FIKE, VERNETTA EILEEN .....		Morgantown
FLICK, DONALD FRANKLIN .....	ASTP	Martinsburg
GRECO, RAY SILVIO .....		Fairmont
HARVEY, ROBERT CALVIN .....	ASTP	Clear Fork
HAUGHT, DAVID ALONZO, JR. ....	V-12	Huntington
B. S., Pharmacy, W. Va. University, 1943.		
HAUGHT, JAMES SWIHART .....	ASTP	Morgantown
HEROLD, WILLIAM SAWYERS .....		Summersville
JARRELL, SHELBY EDWARD .....	ASTP	Packsville
LOGUE, CLARENCE ARCHIE .....	V-12	Newell
LORIA, LOUIS AMADEA .....	ASTP	Hepzibah
MCCOY, JOHN ROBERT, JR. ....	ASTP	Elm Grove
MORGAN, MARGARET .....		Beckley
MORGAN, RICHARD YOUNG .....	ASTP	Beckley
MYERS, KARL JOHNSON, JR. ....	ASTP	Philippi
PECK, FRANK McDONALD .....		Logan
A. B., W. Va. University, 1943.		
PECK, JAMES WILLIAM .....		Summersville
PHILLIPS, WILLIAM ALLAN .....	V-12	Wheeling
PONEK, BENJAMIN .....	ASTP	Cassville
POSKE, ROBERT MARTIN .....	ASTP	Parkersburg
B. S., W. Va. University, 1944.		
REDA, FRANK ANTHONY, JR. ....	ASTP	Clarksburg
SALVATI, EUGENE PHILIP .....	ASTP	Holden
STUTZMAN, LEON .....		Shepherdstown
TEMELES, ROY SHERMAN .....	ASTP	Weirton
THACKER, CHARLES WOODROW .....	V-12	Philippi
THOMPSON, JAMES ALPHA .....	ASTP	Clarksburg
TULLY, CARL CHRISTOPHER .....	ASTP	Charleston
B. S., Morris Harvey, 1937.		
WALKER, WILLIAM NELSON, JR. ....	V-12	Bridgeport
A. B., W. Va. University, 1943.		
WILLIAMS, WILLIAM TILDEN .....		Beckley

Note—ASTP or V-12 following the names of students indicate that they are carrying on their medical work as enlisted men in either the Army or Navy.

## Class Entering March 22, 1943

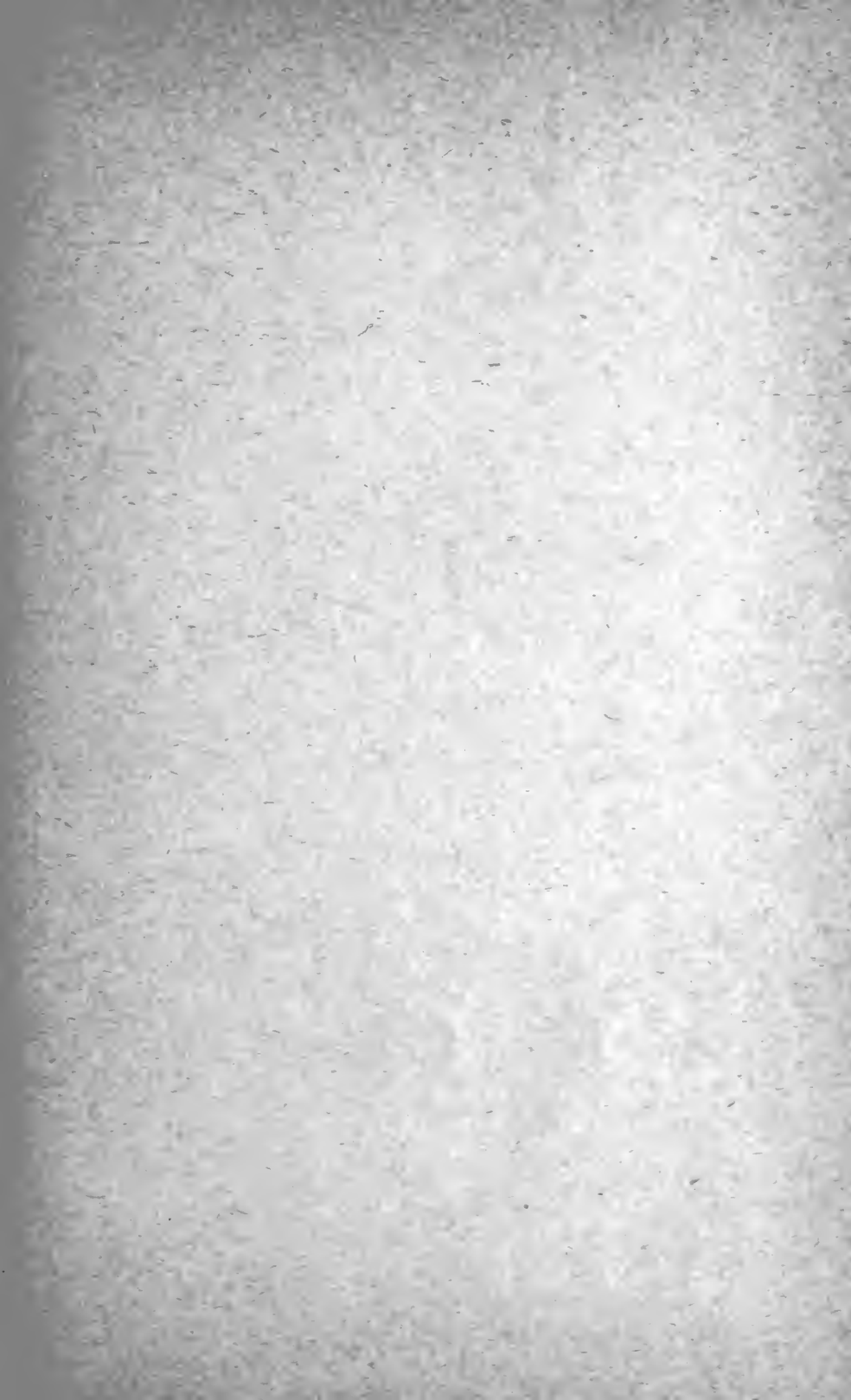
BERMAN, RALPH EPHRAM A. B., W. Va. University, 1944.	ASTP	Beckley
BING, JOHN PAUL	ASTP	Mt. Hope
COUNTS, EDWARD FRANKLIN, JR. A. B., W. Va. University, 1944.	ASTP	So. Charleston
CURRY, WYSON JUNIOR B. S., W. Va. Institute of Technology, 1942.	ASTP	Montgomery
FLEMING, ARTHUR RAY	ASTP	Buckhannon
GARRETT, GENEVIEVE M. A. B., W. Va. University, 1943.		Morgantown
HEINLEIN, RUSSELL L. A. B., W. Va. University, 1944.	ASTP	Sistersville
HOLCOMB, CHARLES WILLIAM	V-12	Sutton
HUTTON, EUGENE ELIHU B. S., Davis and Elkins, 1934. M. S., W. Va. University, 1940.	ASTP	Huttonsville
KNOX, KENNETH RAVEN B. S., W. Va. Wesleyan College, 1943.	ASTP	Huntington
LARRICK, ROBERT VERNON A. B., Shepherd College, 1941.	ASTP	Capon Bridge
LEMON, GEORGE L. A. B., W. Va. University, 1944.	ASTP	Lewisburg
LINDSEY, SHERMAN BRANCE A. B., W. Va. University, 1944.	ASTP	Philippi
MCCUNE, WILLIAM RICHARD A. B., W. Va. University, 1944.	V-12	Gassaway
MCDONALD, JACK HOMER B. S., W. Va. Wesleyan College, 1943.	V-12	Mt. Hope
MATHIAS, JAMES DOLAN A. B., W. Va. University, 1944.	ASTP	Mathias
MORRIS, GEORGE LYLE, JR. A. B., W. Va. University, 1944.	ASTP	Ameagle
PANTALONE, ALBERT A. B., W. Va. University, 1943.	ASTP	Farmington
SKAGGS, JOSEPH THOMAS A. B., W. Va. University, 1944.	ASTP	Montgomery
STANSBURY, FRED, JR. A. B., W. Va. University, 1944.	ASTP	Glen Daniel
STOOLFIRE, ARTHUR WALDO A. B., W. Va. University, 1944.	V-12	Valley Grove
THIERS, GEORGE FREDERICK A. B., W. Va. University, 1944.	ASTP	Hollidays Cove
WALLACE, RICHARD CUSTER B. S., Marshall College, 1944.	ASTP	So. Charleston
WARD, CHARLES E. B. S., W. Va. University, 1940.	ASTP	Morgantown
WARNOCK, JACK WOODSON	ASTP	Huntington
WEISS, WILLIAM H. A. B., W. Va. University, 1944.	V-12	Fairmont
ZEKAN, JOHN GEORGE A. B., W. Va. University, 1943.	ASTP	Brownnton

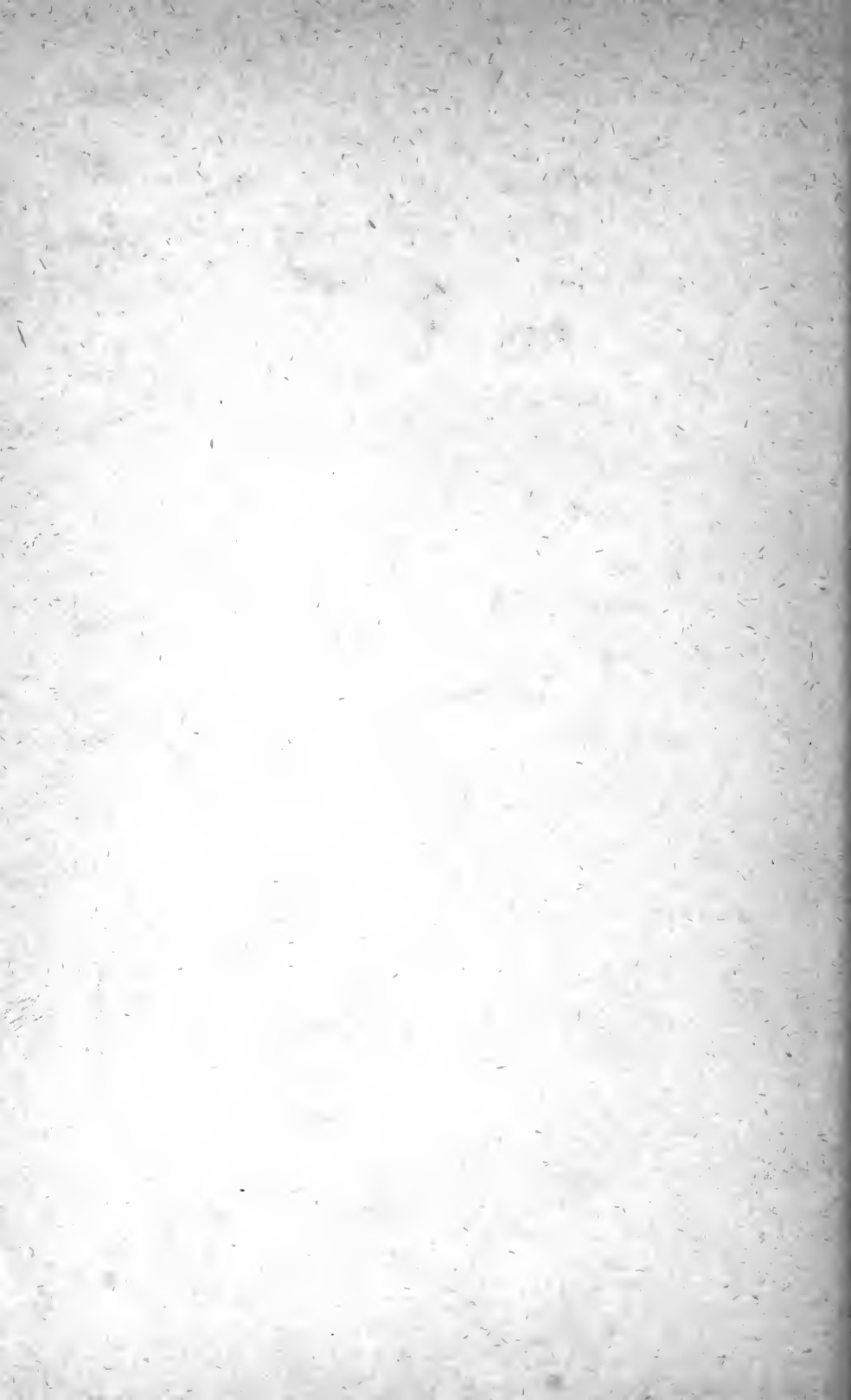
## Class Entering June 1, 1942

### Completed the Second Year December 16, 1943

BAILEY, KENNETH DALE	V-12	Clarksburg
A. B., W. Va. University, 1943.		
BENCHEA, ROBERTA HALL		Weston
A. B., W. Va. University, 1942.		
BOONE, REECE RICHARD, JR.	ASTP	Smithers
A. B., W. Va. University, 1943.		
CHAMBERLAIN, ROBERT LUIKART	V-12	Parkersburg
B. S., West Virginia Wesleyan College, 1942.		
COMPTON, JOHN WALLACE	ASTP	Ronceverte
A. B., W. Va. University, 1943.		
FRYER, LOIS FOX		Smithburg
A. B., W. Va. University, 1943.		
GOTSES, PAUL SPIRO	ASTP	Fairmont
A. B., W. Va. University, 1943.		
HAYDEN, GEORGE DOUGLAS	V-12	Huntington
JOSEPH, ALFRED	ASTP	Whitesville
KAMONS, EDWIN JULIAN	ASTP	Parkersburg
A. B., W. Va. University, 1942.		
LILLY, FREDERICK VIVAN	V-12	Montgomery
A. B., W. Va. University, 1943.		
McFARLAND, FRANK KENNETH	V-12	Elm Grove
A. B., W. Va. University, 1943.		
MALLAMO, FRANKLIN WILLIAM	ASTP	Fairmont
A. B., W. Va. University, 1943.		
MAROVICH, SAMUEL	ASTP	Weirton
A. B., W. Va. University, 1943.		
MARRA, JOHN JAMES	V-12	Everettville
A. B., W. Va. University, 1943.		
NAMAY, ELLIOT MOSES	ASTP	Charleston
PAINE, ALBERT JAMES	ASTP	Charleston
A. B., W. Va. University, 1942.		
PARSONS, ROBERT LARUE	V-12	Davis
A. B., W. Va. University, 1943.		
RAPER, GEORGE THOMAS	ASTP	Glendale
A. B., W. Va. University, 1943.		
ROBISON, WILLIAM HARRY	ASTP	Morgantown
A. B., W. Va. University, 1943.		
SQUIRES, RUSSELL DILL	ASTP	Fairmont
A. B., W. Va. University, 1943.		
THOMPSON, ARCHIE CAREY	V-12	Charleston
A. B., W. Va. University, 1943.		
THOMPSON, HARVEY JOHNSON	V-12	Princeton
A. B., W. Va. University, 1942.		
TUCKER, ELDON BRYANT, JR.	ASTP	Morgantown
A. B., W. Va. University, 1942.		
YOH0, DAVID EARL	V-12	Moundsville
A. B., W. Va. University, 1942.		







# **West Virginia University Bulletin**

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Series 45, No. 8-II

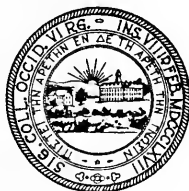
February 1945

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## **CATALOGUE**

### **THE SCHOOL OF MEDICINE**

#### **1944-45 SESSION**



#### **ANNOUNCEMENTS OF THE 1945-46 SESSION**

#### **AND NEW CURRICULUM IN MEDICAL TECHNOLOGY**

**MORGANTOWN, WEST VIRGINIA**  
Published by the University

Entered as second-class matter, July 15, 1929, at the post office at  
Morgantown, West Virginia, under the Act of August 24, 1912

Issued Monthly

## YEAR 1945

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
7	1	2	3	4	5	6	4	5	6	7	1	2	3	4	5	6	7	1	2	3	1	2	3	4	5	6	7
14	8	9	10	11	12	13	11	12	13	14	8	9	10	11	12	13	14	8	9	10	15	16	17	18	19	20	21
21	15	16	17	18	19	20	18	19	20	21	15	16	17	18	19	20	21	15	16	17	22	23	24	25	26	27	28
28	22	23	24	25	26	27	25	26	27	28	22	23	24	25	26	27	28	22	23	24	29	30	31				
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
6	7	1	2	3	4	5	3	4	5	6	7	1	2	1	2	3	4	5	6	7	5	6	7	1	2	3	4
13	14	8	9	10	11	12	10	11	12	13	14	15	16	8	9	10	11	12	13	14	12	13	14	15	16	17	18
20	21	22	23	24	25	26	17	18	19	20	21	22	23	15	16	17	18	19	20	21	19	20	21	22	23	24	25
27	28	29	30	31			24	25	26	27	28	29	30	22	23	24	25	26	27	28	26	27	28	29	30	31	
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	1	7	1	2	3	4	5	6	4	5	6	7	8	9	10	2	3	4	5	6	7	1
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
30																					30	31					

## YEAR 1946

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
6	7	1	2	3	4	5	3	4	5	6	7	1	2	3	4	5	6	7	1	2	7	1	2	3	4	5	6
13	14	8	9	10	11	12	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30	28	29	30				
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
5	6	7	1	2	3	4	2	3	4	5	6	7	1	7	1	2	3	4	5	6	4	5	6	7	1	2	3
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26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	31
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	6	7	1	2	3	4	5	3	4	5	6	7	1	2	1	2	3	4	5	6	7
8	9	10	11	12	13	14	13	14	15	16	17	18	19	10	11	12	13	14	15	16	8	9	10	11	12	13	14
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22	23	24	25	26	27	28	27	28	29	30	31			24	25	26	27	28	29	30	22	23	24	25	26	27	28
29	30																				29	30	31				

The days that the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type. The School of Medicine does not follow this calendar.

# The University Calendar

NOTE—The School of Medicine operates on its own special Calendar. See page 4.

## 1945

May 26, Saturday	Alumni Day
May 27, Sunday	Baccalaureate Exercises
May 28, Monday	Commencement Day
June 4, Monday	Registration for first term, Summer Session
June 5, Tuesday	First recitations, Summer Session
July 4, Wednesday	Independence Day, a holiday
July 13, Friday	Close of first term, Summer Session
July 16, Monday	Registration for second term, Summer Session
July 17, Tuesday	First recitations, second term, Summer Session
August 24, Friday	Close of Summer Session
September 14, Friday, to September 18, Tuesday, inclusive	Freshman Week Program
September 17 and 18, Monday and Tuesday	Registration for first semester
September 19, Wednesday	First recitations, first semester
November 9, Friday	Mid-semester reports due
November 22, Thursday, to November 25, Sunday, inclusive	Thanksgiving Recess
December 21, Friday, to January 2, Wednesday, inclusive	Christmas Recess

## 1946

January 19, Saturday, to January 26, Saturday, inclusive	Final examinations for first semester
January 29 and 30, Tuesday and Wednesday	Registration for second semester
January 31, Thursday	First recitations, second semester
March 22, Friday	Mid-semester reports due
April 18, Thursday, to April 24, Wednesday, inclusive	Easter recess
May 23, Thursday, to May 31, Friday, inclusive	Final examinations for second semester
June 1, Saturday	Alumni Day
June 2, Sunday	Baccalaureate Exercises
June 3, Monday	Commencement Day

The University Calendar is subject to change without notice.

# The Medical School Calendar

## Subject to Change Without Notice

On account of the national emergency the Medical School is operating on an accelerated schedule. Its calendar is different from the general University calendar.

### Dates for Admission of Classes Under Accelerated Program

June 1 .....	1942	September 25 .....	1944
March 22 .....	1943	September 24 .....	1945
December 27 .....	1943	September 23 .....	1946

## CALENDAR

### Winter Term, 1944-45

Registration .....	December 26, Tuesday
First classes .....	December 27, Wednesday
Last classes .....	March 14, Wednesday
Examinations .....	March 15, Thursday, to March 17, Saturday, inclusive.

### Spring Term, 1945

Registration .....	March 26, Monday
First classes .....	March 27, Tuesday
Last classes .....	June 13, Wednesday
Examinations .....	June 14, Thursday, to June 16, Saturday, inclusive.

### Summer Term, 1945

(No first-year students)

Registration .....	June 25, Monday
First classes .....	June 26, Tuesday
Last classes .....	September 12, Wednesday
Examinations .....	September 13, Thursday, to September 15, Saturday, inclusive.

### Autumn Term, 1945

(New class enters)

Registration .....	September 24, Monday
First classes .....	September 25, Tuesday
Last classes .....	December 12, Wednesday
Examinations .....	December 13, Thursday, to December 15, Saturday, inclusive.

### Winter Term, 1945-46

Registration .....	December 26, 1945, Wednesday
First classes .....	December 27, 1945, Thursday
Last classes .....	March 13, 1946, Wednesday
Examinations .....	March 14, Thursday, to March 16, Saturday, inclusive.

### Spring Term, 1946

Registration .....	March 25, 1946, Monday
First classes .....	March 26, 1946, Tuesday
Last classes .....	June 12, 1946, Wednesday
Examinations .....	June 13, Thursday, to June 15, Saturday, inclusive.

## ADMINISTRATION

CHARLES ELMER LAWALL, *President of the University*

E. M., M. S., LL. D.

EDWARD JERALD VAN LIERE, *Dean and Professor of Physiology*

B. A., M. S., M. D., PH. D., F. A. C. P.

JOHN NATHAN SIMPSON, *Dean Emeritus*

A. B., M. D., F. A. C. P.

## THE FACULTY

### Professors

EDWARD JERALD VAN LIERE, *Professor of Physiology and Dean*

B. A., M. S., University of Wisconsin, 1915, 1916; M. D., Harvard University, 1920; PH. D., University of Chicago, 1927; F. A. C. P.

GIDEON STANHOPE DODDS, *Professor of Histology and Embryology, and Chairman of Committee on Entrance and Scholarship*

B. A., M. A., University of Colorado, 1904, 1905; PH. D., University of Pennsylvania, 1910.

CLEMENT COLEMAN FENTON, *Professor of Pathology and Clinical Pathology*

A. B., Columbia University, 1915; M. S., West Virginia University, 1922; M. D., Cornell University, 1925; F. A. C. P.

ROBB SPALDING SPRAY, *Professor of Bacteriology and Public Hygiene*

B. S., Purdue University, 1914; M. S., Pennsylvania State College, 1917; PH. D., University of Chicago, 1923.

SIMON B. CHANDLER, *Professor of Gross Anatomy and Neuro-anatomy*

A. B., University of Missouri, 1922; A. M., M. D., Northwestern University, 1926, 1927.

PERCIVAL LLOYD MACLACHLAN, *Professor of Biochemistry*

B. A., Queens University, 1931; PH. D., University of Rochester, 1935.

### Associate Professors

DAVID WILMARTH NORTHUP, *Associate Professor of Physiology*

A. B., Reed College, 1930; A. M., University of Oregon, 1932; PH. D., University of Illinois, 1935.

CECIL BENJAMIN PRIDE,<sup>3</sup> *Associate Professor of Surgery*

A. B., Ohio Wesleyan University, 1916; B. S., West Virginia University, 1921; M. D., Western Reserve University, 1923; F. A. C. S.

JOHN JOSEPH LAWLESS, *Associate Professor of Medicine and Director of University Health Service*

B. S., M. A., PH. D., University of Minnesota, 1930, 1931, 1934; M. D., Rush Medical College, 1939.

EUGENE DEANGELIS, *Associate Professor of Pathology and Physician in University Health Service*

B. S., West Virginia University, 1935; M. B., M. D., Northwestern University, 1938, 1939.

<sup>3</sup>Part-time. In private practice.

DAVID FIELDING MARSH, *Associate Professor of Pharmacology*

A. B., West Virginia University, 1939; M. S., Purdue University, 1940;  
Ph. D., University of California, 1942.

### Assistant Professors

GEORGE RALPH MAXWELL, *Assistant Professor of Medicine (Physical Diagnosis)*

B. S., West Virginia University, 1921; M. D., University of Cincinnati,  
1923; F. A. C. P.

CLARK KENDALL SLEETH,<sup>1</sup> *Assistant Professor of Medicine and Physician in  
University Health Service*

A. B., B. S., West Virginia University, 1933, 1935; M. D., University of  
Chicago, 1938.

MELVIN CRAWFORD GODWIN,<sup>2</sup> *Assistant Professor of Histology and Anatomy*

A. B., DePauw University, 1931; Ph. D., Cornell University, 1936.

FREDERICK RENDELL WHITTLESEY,<sup>3</sup> *Assistant Professor of Medicine*

A. B. Wooster College, 1921; M. D., Western Reserve University, 1925;  
F. A. C. P.

DAVID SALKIN, *Assistant Professor of Medicine (Physical Diagnosis)*

(*Superintendent of Hopemont Sanitarium*)

M. D., University of Toronto, 1929; F. A. C. P.

THOMAS WALLEY WILLIAMS, *Assistant Professor of Histology and Anatomy*

B. S., M. S., Ph. D., University of Pittsburgh, 1934, 1937, 1939.

### Instructors

JOHN CLIFFORD STICKNEY, *Instructor in Physiology*

B. S., Wheaton College, 1933; M. S., University of Washington, 1936;  
Ph. D., University of Minnesota, 1940.

CARL EDWARD JOHNSON,<sup>3</sup> *Instructor in Medicine (Physical Diagnosis)*

A. B., B. S., West Virginia University, 1923, 1925; M. D., Northwestern  
University, 1928; F. A. C. P.

ARCHIE LEMUEL STARKEY, *Instructor in Medicine (Physical Diagnosis)*

(*Physician in Hopemont Sanitarium*)

B. S., West Virginia University, 1924; M. D., University of Arkansas,  
1937.

GLENN DRAGER, *Instructor in Anatomy*

B. S., University of Wyoming, 1940; M. S., Ph. D., University of Minne-  
sota, 1942, 1943.

CHARLES LEWIS,<sup>1</sup> *Instructor in Bacteriology*

A. B., Ohio State University, 1940; M. S., West Virginia University, 1941.

HOSEA DEWAIN IRELAND, *Instructor in Medicine (Physical Diagnosis)*

(*Physician in Hopemont Sanitarium*)

B. S., West Virginia University, 1934; M. D., Medical College of Vir-  
ginia, 1936.

<sup>1</sup>On leave of absence for military service.

<sup>2</sup>Resigned September, 1944.

<sup>3</sup>Part-time. In private practice.



HAROLD HENRY TEITELBAUM, *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopemont Sanitarium*)

M. D., Royal College of Physicians and Surgeons, University of  
Edinburgh, 1938.

ANDREW KIMMONS BUTLER, *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopemont Sanitarium*)

B. S., West Virginia University, 1936; M. D., Rush Medical College,  
1942.

MARY JOSEPHINE HENN, *Instructor in Bacteriology*

A. B., University of Nebraska, 1940; M. S., University of Minnesota, 1944.

CHARLES ALBERT ROSS, *Instructor in Pharmacology*

B. S., Purdue University, 1940; M. S., University of Kentucky, 1942.

### Assistants

HECTOR HIRAM FILARDI,<sup>2</sup> *Assistant in Biochemistry*

A. B., West Virginia University, 1944.

GENE HOPE SMITH, *Assistant in Biochemistry*

### Lecturers

ELDON BRYANT TUCKER,<sup>3</sup> *Lecturer in Pharmacology (Anesthesiology)*

B. S., West Virginia University, 1919; M. D., University of Cincinnati, 1921.

JOSEPH LESTER HAYMAN, *Lecturer on Prescription Writing and on food, drug,  
and narcotic laws relating to physicians*

(*Dean and Professor of Pharmacognosy, College of Pharmacy*)

Ph. C., M. S., University of Michigan, 1919, 1925.

### Technicians

DAVID SAMUEL BARRICKMAN, *Technician in Anatomy and Histology*

B. S., M. S., West Virginia University, 1932, 1933.

VESTA EMILY ANDERSON, *Technician in Pathology*

ELIZABETH MARIE BOGER, *Technician in Pathology*

A. B., West Liberty State College, 1942.

ERNEST JOHNSON, *Technician in Bacteriology*

### Clerical

FLORENCE ELLIOTT WEAVER, *Secretary*

EDITH MAE ROSS, *Assistant Secretary and Record Clerk*

## THE UNIVERSITY HEALTH SERVICE

### Physicians

JOHN JOSEPH LAWLESS, *Director of University Health Service and Associate  
Professor of Medicine*

B. S., M. A., Ph. D., University of Minnesota, 1930, 1931, 1934; M. D.,  
Rush Medical College, 1939.

<sup>1</sup>On leave of absence for military service.

<sup>2</sup>Resigned September 1944.

<sup>3</sup>Part-time. In private practice.

SAMUEL JOHN MORRIS, *Physician and Medical Adviser to the Department of Athletics*

M. D., University of Maryland, 1912.

CLARK KENDALL SLEETH,<sup>1</sup> *Physician and Assistant Professor of Medicine*

A. B., B. S., West Virginia University, 1933, 1935; M. D., University of Chicago, 1938.

EUGENE DEANGELIS, *Physician and Associate Professor of Pathology*

B. S., West Virginia University, 1935; M. B., M. D., Northwestern University, 1938, 1939.

### Nurses

ETHEL FEATHER ELLIS, *Nurse in the University Health Service*

BETTY EMERSON, R. N., *Nurse in the University Health Service*

MARY STENGER, R. N., *Nurse in the University Health Service*

Other nurses as needed for patients in Infirmary.

### Technicians

FABRY LIVINGSTON HAWK, *Technician in the University Health Service*  
Registered Medical Technologist

AILON BUFORD LINGAR,<sup>1</sup> *Technician in the University Health Service*  
A. B., West Virginia University, 1942.

CHARLES ERNEST HOLLANDSWORTH,<sup>1</sup> *Technician in the University Health Service*

### Clerical

HELEN CLARISSA O'NEILL, *Secretary in the University Health Service*

## THE STANDING COMMITTEES

EXECUTIVE: E. J. VAN LIERE (*chairman*), G. S. DODDS, F. R. WHITTLESEY, and C. B. PRIDE.

ENTRANCE AND SCHOLARSHIP: G. S. DODDS (*chairman*), S. B. CHANDLER, C. C. FENTON, and P. L. MACLACHLAN.

LIBRARY: S. B. CHANDLER (*chairman*), G. S. DODDS, J. C. STICKNEY, E. DEANGELIS, and P. L. MACLACHLAN.

RESEARCH: E. J. VAN LIERE (*chairman*), R. S. SPRAY, D. W. NORTHUP, D. MARSH, and P. L. MACLACHLAN.

SEMINARS: S. B. CHANDLER (*chairman*), E. DEANGELIS, J. C. STICKNEY, C. C. FENTON, and E. J. VAN LIERE.

CLINICAL AND SPECIAL FACILITIES: J. J. LAWLESS (*chairman*), C. B. PRIDE, C. C. FENTON, G. R. MAXWELL, E. DEANGELIS, and F. R. WHITTLESEY.

CURRICULUM: G. S. DODDS (*chairman*), E. DEANGELIS, P. L. MACLACHLAN, and E. J. VAN LIERE.

STUDENT LOANS AND SCHOLARSHIPS: E. J. VAN LIERE (*chairman*), G. S. DODDS, P. L. MACLACHLAN, and J. C. STICKNEY.

<sup>1</sup>On leave of absence for military service.

## **GENERAL INFORMATION**

### **War Emergency Notice**

The School of Medicine has been operating on an accelerated schedule since June 1, 1942, in order that the University may play its part in the more rapid training of the physicians needed in the present national emergency. Under this schedule a class has been admitted every nine months, and the long summer vacation has been eliminated. The academic year is divided into three terms instead of two semesters, which allows four terms to be completed in one calendar year. This plan allows a student to complete the two years' work within 18 calendar months after his entrance. By June, 1945, an entire academic year will be gained by the accelerated program. This plan is essentially the same as that being followed by the great majority of medical schools in this country.

Beginning with 1945 the plan will be modified to the extent that a class is to be admitted each year, but otherwise the accelerated schedule will continue so that the student will complete the two academic years in 18 calendar months after his matriculation.

The Executive Council of the Association of American Medical Colleges is constantly in touch with the appropriate Federal authorities and keeps medical schools informed of changes in rulings which affect the operation of the schools. At present many of the male students in the medical schools of the United States are enlisted in either the Army or the Navy and are being sent to medical schools by these services. Increasing strictness of deferment rules has made admission of civilians to medical schools a very uncertain matter. Those interested should write to the Dean of the School of Medicine. For further statements on this matter see under "Requirements for admission" on page 14.

### **Instruction in Medicine**

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### **Agreement With Medical College of Virginia**

Only the first two years of medicine are given at West Virginia University. There has been made an agreement with the Medical College of Virginia at Richmond for the transfer of as many as twenty students, residents of West Virginia, who have completed the first two years at West Virginia University. At the Medical College of Virginia these students will pay

the same tuition as paid by the residents of Virginia. Upon graduation, diplomas will be issued jointly by the two schools. Other students in the class may, as in the past, transfer to various medical schools for the completion of their work.

## **Buildings and Equipment**

### **THE MEDICAL BUILDING, LABORATORIES, AND CLASSROOMS**

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the Dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in a separate building.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center: a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

### **LIBRARY**

The Medical Library is not organized as a separate unit but is housed in the University Library Building, where publications of prime importance to the students and Faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building, which is closely adjacent to the Library Building. Additional current issues of essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 13,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with the pre-clinical fields for the most part but comprising also the better representative works in internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and the history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, the Library of Congress, or other libraries. Complete sets of various abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is

available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library, and a member of the Staff also represents the School of Medicine on the general Library Committee of the University.

### **Living Accommodations**

The University maintains three large dormitories, one for men and two for women. Cost of room and board in all dormitories ranges from \$345 to \$410 per academic year of 9 months. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Director of Residences and Commons, West Virginia University, Morgantown. Because of Government occupation of the dormitory for men, reservations in this hall cannot be made for the duration.

Medical students, in the main, must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For further information concerning houses on the approved list, men should address the office of Mr. H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University.

### **Cost of a Year's Work**

Textbooks and supplies will cost about \$50 to \$75 per academic year. Registration fees for residents are \$255; for non-residents, \$405 per academic year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month session for medical students in residence will range from \$750 to \$950, exclusive of traveling expenses.

### **LOANS FOR MEDICAL STUDENTS**

It frequently happens that students otherwise well qualified for the study of medicine are short of funds to defray the necessary expenses. For the assistance of such students there are available certain loans, some specifically for medical students, others available to students of all colleges in the University. For information about loans, inquiries should be made to Mr. Harry E. Stone, Secretary, Committee on Prizes, Scholarships, and Loan Funds, West Virginia University, Morgantown.

### **The University Health Service**

The University Health Service, which is a part of the organization of the School of Medicine, is maintained to provide medical service to the students of the University and to supervise the general health conditions on the campus. Since March, 1943, the Health Service has had the care of about 1,300 service men in uniform, who have been in residence as students of the University, in addition to the regular civilian students. The Staff has included three physicians, about seven nurses, and two laboratory technicians. The University Pharmacy, where students may secure medicine, is managed by the College of Pharmacy. The Departments of Pathology and Bacteriology cooperate in the laboratory examination of diagnostic materials.

Each regularly enrolled University student pays a fee which provides for medical consultation and advice from the University Physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, minor operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. Hospital insurance is included in the student's medical fees. This service covers the cost of routine hospital care in the local hospitals for an aggregate of thirty days in each school year. This insurance does not cover professional fees which might arise in connection with such hospitalization. When a student enters the University for the first time, he receives a complete physical examination, which includes a blood test, urine analysis, and tuberculin test. The Health Service also gives special physical examinations to students in competitive athletics, to University food handlers, to employees of buildings and grounds, and to other groups as occasion may arise.

The Health Service occupies a well-designed University Health Center constructed in 1941. This three-story building is centrally located on the campus, fronting on College Avenue adjacent to Reynolds Hall. It is a T-shaped structure of brick and concrete, with a front width of 88 feet and a depth of 68 feet.

On the first floor are the receiving room; the office of the secretary; offices for three physicians; a room for minor surgery; rooms for treatments and for the various forms of physiotherapy; a room for basal metabolism readings and electro-cardiograms; and a consultation and reading room for physicians. One room on this floor is assigned to the University Pharmacy for the dispensing of drugs to students.

On the second floor is the diagnostic laboratory with adequate equipment for making tests and analyses. The X-ray equipment is housed in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor also are rooms occupied by the Department of Pathology of the School of Medicine, including a good-sized student laboratory, the pathological museum, a preparation room, a stock room, and the necessary offices and private laboratories. The members of the Department staff co-operate with the Health Service Laboratory in diagnostic work.

The third floor is designed for the hospitalization of students. On the main corridor are rooms accommodating sixteen hospital beds. In the rear wing, on a private corridor, are two isolation wards with seven beds for contagious cases. This corridor has its own bath, toilet, diet kitchen, and utility room. This floor also includes a three-room suite designed to serve as living quarters for nurses. Beginning with March 1943, the third floor has been utilized for the hospitalization of men in the armed forces who have been taking work in the University.

### **Clinical and Special Facilities**

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine:

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and

staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the Heiskell Memorial Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia County, the Department of Pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the Heiskell Memorial Hospital, the Monongalia General Hospital, and the Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

### **Seminar**

On alternate Friday afternoons at 4 o'clock there is held a seminar attended by Faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the Faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

### **Journal Club**

The Journal Club, organized by the Faculty of the School of Medicine, meets once each week during the Fall, Winter, and Spring terms. At each meeting a member presents for discussion a report of outstanding papers published in his field of interest. Students and Faculty are invited to attend and to join in the discussions.

## **Organizations and Lectureships**

### **ALUMNI ASSOCIATION**

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

### **JOHN NATHAN SIMPSON LECTURESHIP**

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N.

Simpson, now Dean Emeritus of the School of Medicine, giving an annual lecture by someone distinguished in medical research or practice.

## **REQUIREMENTS FOR ADMISSION**

### **Enlisted Men**

The classes up to and including the one to register in September 1944 have been chosen by the School, almost wholly on a civilian basis. However, a large majority of the male students since June 1942 have enlisted in either the Army or the Navy and are receiving their medical education under the provisions of contracts between these two services and West Virginia University. According to these contracts, a considerable percentage of the students in the class to enter in the year 1945 will be assigned to the Medical School from men trained in the pre-medical programs of the Army (ASTP) and the Navy (V-12). The extent and content of these pre-medical curricula are determined in conference between representatives of the armed forces and the two accrediting agencies for medical schools (the Council on Medical Education and Hospitals of the American Medical Association, and the Association of American Medical Colleges). The individual medical schools will have practically no choice of students nor voice in the nature of the pre-medical training of these students. According to the regulations in force at the date when this bulletin goes to press, only men who are already in pre-medical training in V-12 or AST programs will be eligible to receive their medical education under these programs. Inasmuch as these regulations are subject to unannounced changes, persons interested should consult the Dean of the Medical School.

### **Civilian Students**

The Army and Navy contracts with medical schools leave a quota in the entering class of each medical school for which the school may select civilian students who may be able to secure deferment from military service. The Medical School of West Virginia University hopes to maintain for civilian applicants the same entrance requirements as in the past, so that there may be no lowering of the fitness of these students for the study of medicine. These requirements are stated below. Applications for admission are passed upon by the Committee on Entrance and Scholarship, composed of four members of the Faculty of the School.

#### **I. How to Apply for Admission**

Application for admission must be made upon blanks which may be obtained from the Dean's office upon request. No application will be considered until the Dean's office has received a complete, official transcript of all high-school and college work, including a statement of honorable dismissal. Such records should include a list of the courses in progress at the time of application. Work subsequently completed should be reported at the end of each semester or term.

It is the responsibility of the applicants (except those in residence at West Virginia University) to have all the above records forwarded to the Dean of the Medical School. After certificates have been considered by the Committee on Entrance and the credits recorded, the certificates become the property of the University and are filed permanently in the Registrar's office.



## 2. When to apply for Admission

Owing to the present general uncertainty, applications should be made a year in advance if possible. Applications will be considered as long as there are vacancies.

## 3. Date of Notification of Action of Entrance Committee

During the present war emergency, no dates can be set for notification of action of the Entrance Committee. Applicants will be kept informed from time to time.

## 4. Advance Deposit Fee

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first term. If this fee is not received within the time designated, the place will be considered open to other applicants. Checks should be made payable to West Virginia University. If the applicant fails to enter the School of Medicine, this deposit is forfeited.

## 5. Residence

Preference is given to residents of West Virginia. For the past several years the resident applicants have been so numerous that there have been no places available for non-residents.

## 6. Scholarship

The number of students that can be admitted is definitely limited. In selecting students to fill the available places, preference will be given to applicants of high scholarship. The school reserves the right to reject any applicants whose pre-medical records are unsatisfactory in quality of scholarship. For several years all places have been filled with students whose average grade was above "C".

In computing average grades of students applying for admission to the School of Medicine, grades are expressed in numerical points per semester hours as follows:

A .....	3	D .....	0
B .....	2	E .....	minus 1
C .....	1	F .....	minus 2

These values are applied to all courses for which the student has registered (military and physical education excepted) in all institutions attended. The value of minus 1 applies to a grade of E whether this grade is subsequently changed to a passing grade or to a failure. When grades are expressed in a system different from the one used at West Virginia University, the values are adjusted to give an equivalent measure of accomplishment.

## 7. Medical Aptitude Test

Applicants are required to take the aptitude test approved by the Association of American Medical Colleges, given at announced dates in all colleges preparing students for the study of medicine. The rating in this test will be considered in determining the fitness of the applicant.

### 8. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Entrance considers such readmission justified.

### 9. Personal Attributes

Careful consideration is given to those personal qualifications which have a bearing upon the fitness of the applicant for the study and practice of medicine. Students must be at least 18 years of age at the time of entrance to the Medical School. Persons who have been out of college for some years, or who are several years older than the average applicant, are admitted only when they show unmistakable evidence of superior ability and training.

### 10. Subject Requirements for Admission

All applicants must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college.

A detailed statement of such requirements follows:

#### Secondary-school Credits Required

**Secondary-school Unit.** A unit in any subject represents the amount of work that may be done in a standard high school year of 36 weeks, with five recitations each week of no less than 40 minutes each. In courses where laboratory work is required, from two to three hours of laboratory work are considered the equivalent of one hour of recitation, according to the amount of outside preparation required in connection with such work.

For admission to the School of Medicine the applicant must have credit for 15 units of high-school work, as follows:

- |                              |          |
|------------------------------|----------|
| 1. English .....             | 4 units* |
| 2. Mathematics .....         |          |
| Algebra .....                | 1 unit   |
| Plane geometry .....         | 1 unit   |
| 3. A third subject .....     | 3 units  |
| 4. A fourth subject .....    | 2 units  |
| 5. Additional subjects ..... | 4 units  |

The School of Medicine strongly urges that applicants have two units of Latin.

#### College Credits Required

In addition to the high-school requirements, applicants must have credit for at least three years' work in a college of recognized standing. This must include 90 semester hours, exclusive of military science and physical education. For statement about pre-medical curricula, see page 20.

Preference is given to applicants whose pre-medical collegiate work was taken in approved colleges of arts and sciences or junior colleges included in the list published by the Council on Medical Education and Hospitals of the American Medical Association. Applicants from other colleges must show evidence of superior ability.

**College Credit.** A college credit or semester hour represents the amount of work done in one semester in one recitation hour, with two prep-

\*Students who present only 3 units of English for entrance are required to take 6 hours of college English in addition to the 6 hours required for entrance.

aration hours a week. From two to three hours of laboratory work are considered equivalent to one hour of recitation, according to the amount of outside work assigned in connection with the laboratory hour.

The following subjects and hours are the minimum requirements for admission. They must be met in full:

English composition and rhetoric .....	6 hours
Physics .....	8 hours
Biological sciences .....	12 hours
(Should be mainly zoology and should include comparative anatomy of the vertebrates.)	
Chemistry .....	20 hours
(Six hours must be organic chemistry. This should include adequate training in both aliphatic and aromatic chemistry.)	
Psychology .....	3 hours
A modern foreign language .....	12 hours
(German or French preferred.)	
Electives to meet the required number of hours.	

Courses in biological sciences and chemistry should not include subjects that are in any sense a duplication of courses given in medical school (e. g., human anatomy, biological chemistry, human physiology, etc.). Such courses cannot be accepted as satisfying any part of the entrance requirements in those fields.

Mathematics is strongly recommended. Algebra and trigonometry should be taken early enough that they may be useful in the courses in physics and chemistry.

The 12 hours of modern language must be taken in one language. Applicants who have had two units in high school may satisfy the requirement by taking 6 hours of advanced college work in the same language.

Applicants who have not had Latin in high school are urged to take a year of Latin in college.

It should be the aim of the student to gain a broad education rather than to confine his efforts to the required pre-medical sciences. As electives the following subjects are suggested: botany, economics, genetics, geology, history, mathematics, and sociology; advanced work in English composition, chemistry, physics, psychology, and zoology.

## REGISTRATION

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the day set apart for registration at the beginning of each term, as announced in the calendar on page 4 of this Bulletin.

No student will be permitted to register in the School of Medicine after the first week of classes.

## Departure from Scheduled Work

Students must register for all the prescribed courses for each term, except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## FEES

All fees are due and payable at the office of the Comptroller on the day of registration<sup>1</sup>. Students registering in the School of Medicine pay the following:

### Advance Deposit Fee

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list for registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first term. If the applicant fails to enter the School of Medicine, this deposit fee is forfeited by the applicant.

### Tuition and Other Fees

	<i>Resident<sup>3</sup></i>	<i>Non-Resident<sup>3</sup></i>
University Fees and Tuition (per term).....	\$85.00	\$135.00
Part-time students (per semester hour) <sup>2</sup> .....	8.00	12.50

### SPECIAL FEES

Late registration <sup>4</sup> .....	\$ 2.00
Diploma fee <sup>5</sup> .....	10.00
Student's record fee <sup>6</sup> .....	1.00
Breakage deposit .....	10.00

### REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University:

	<i>Amount of Refund</i>
During the first and second weeks .....	All fees less \$3.00
During the third and fourth weeks .....	80% of fees

<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the registrar shall notify their instructors that their class cards are to be withdrawn.

<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during a term. A part-time student is one who is registered for fewer than 10 semester hours per term.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicile in this State, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>4</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 4.

<sup>5</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>6</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

During the fifth and sixth weeks.....	60% of fees
During the seventh and eighth weeks .....	40% of fees
Beginning with ninth week.....	No refunds allowed

## STANDARDS OF SCHOLARSHIP

### Grading and Honor Points

A—Excellent—given only to students of superior ability and attainment. Three honor points per credit hour.

B—Good—given to those students who are well above the average but who are not in the highest group. Two honor points per credit hour.

C—Fair—average student. One honor point per credit hour.

D—Poor but passing. No honor points.

E—Condition<sup>1</sup>.

F—Failure.

FIW—Failure because of irregular withdrawal.

I—Incomplete<sup>2</sup>.

W—All withdrawals during the first seven weeks of the term.

WP—Withdrew passing after the first seven weeks of the term.

WF—Withdrew failing after the first seven weeks of the term.

The quality of a student's work shall be expressed in honor points, which are based only on grades earned in West Virginia University (See above). All courses taken in this institution which are offered toward credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of 1 honor point per credit-hour to be eligible for graduation.

### Removal of Conditions

Examinations for the removal of conditions may not be taken immediately upon notification of the grade, but only after reasonable time for supplementary study, and on dates approved by the Scholarship Committee of the School of Medicine.

Students wishing to take such examinations should make application to the professor concerned, who will consult with the Scholarship Committee.

### Promotions and Suspensions

Any student who fails or conditions all of his work for any term is thereby indefinitely suspended.

Any student who fails to make passing grades in at least half the total number of hours for which he was registered in any two consecutive terms is thereby indefinitely suspended.

A student who during his first year does not make a grade of "C" or better in at least half of the scheduled credit hours for the year may not register for second-year courses except by special permission of the Scholarship Committee.

A student who at the end of the first year has aggregate failures of as much as five semester hours will not be allowed to register for second-year work unless such deficiency is removed by repeating the work in an acceptable school.

<sup>1</sup>A mark of "E" not removed within the following term becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a "C" shall be recorded for the removal of a condition.

<sup>2</sup>If a grade of "I" is not removed within the following term by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

## **Withdrawals**

A student who wishes to withdraw during the term should do so in regular manner. Consult the Dean's office for the steps which must be taken.

## **REQUIREMENTS FOR DEGREES**

The School of Medicine gives no degrees in medicine, except in cooperation with the Medical College of Virginia as noted on pages 9 and 10, inasmuch as only the first two years of medicine are given. It, however, cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree, upon the completion of the two years of medical work, to those students who comply with certain requirements of the College of Arts and Sciences.

## **PRE-MEDICAL CURRICULA**

In view of the war emergency it is impossible to anticipate just what form pre-medical education will take in the immediate or more remote future. Without doubt, changes of various kinds will become necessary. The following paragraphs express the ideals which have guided pre-medical education at West Virginia University in recent years. Such changes as may be made will be for the purpose of enabling the pre-medical program and the School of Medicine to serve more adequately the needs of the present hour.

The administration of the School of Medicine strongly recommends that those students who are able to do so will continue to avail themselves of the fullest possible training for taking up the study of medicine, thus compensating in a measure for the loss incurred by those who of necessity must enter with a foundation in some respects less adequate than that of former years.

In keeping with the need for good pre-medical training, West Virginia University, through its pre-medical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia University to give special pre-medical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude in choice of electives in other departments, so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Upon the completion of the four-year pre-medical curriculum, students receive the A. B. degree in the College of Arts and Sciences. Students who enter the school of Medicine after the third year receive the A. B. degree at the end of the first year of medicine.

Another pre-medical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B. S. degree in pharmacy. For information concerning this course, inquiries should be addressed to the Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.

## The Medical Curriculum 1944-45

The following courses and hours are required of all medical students. The length of a term is 12 weeks including the final-examination periods.

### The Schedule of Courses

	Hrs. per week			Hrs. per term			Semester Hours Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total	
First Year—First Term. Autumn, 1944							
Gross Anatomy 200.....	3	9	12	36	72	144	4
Histology 201.....	4	10	14	48	120	168	5
Biochemistry 201.....	3	6	9	36	72	108	*
First Year—Second Term. Winter, 1945							
Gross Antomy 201.....	2	8	10	24	96	120	3
Embryology 202.....	3	5	8	36	60	96	3
Biochemistry 201.....	3	6	9	36	72	108	6
Medical Bact. 202.....	2	6	8	24	72	96	*
First Year—Third Term. Spring, 1945							
Gross Anatomy 202.....	3	8	11	36	96	132	4
Neuro-anatomy 203.....	3	5	8	36	60	96	3
Physiology 202.....	3	5	8	36	60	96	3
Medical Bact. 202.....	1	6	7	12	72	84	5
Second Year—First Term. Autumn, 1944							
Physiology 203.....	5	6	11	60	72	132	5
General Pathology 201.....	2	5	7	24	60	84	3
Special Pathology 202.....	2	6	8	24	72	96	3
Pharmacology 201.....	2	0	2	24	0	24	1
Public Hygiene 203.....	3	0	3	36	0	36	2
Physical Diagnosis 201.....	0	2	2	0	24	24	*
Second Year—Second Term. Winter, 1945							
Applied Anatomy 204.....	2	4	6	24	48	72	2
Physiology 204.....	2	3	5	24	36	60	2
Tumor Pathology 203.....	2	3	5	24	36	60	*
Pharmacology 202.....	4	3	7	48	36	84	*
Obstetrics 201.....	3	0	3	36	0	36	2
History of Medicine 204.....	1	0	1	12	0	12	0
Physical Diagnosis 201.....	1	2	3	12	24	36	*
Medicine 202.....	1	1	2	12	12	24	*
Principles of Surgery 201.....	2	0	2	24	0	24	*
Psychobiology 203.....	1	0	1	12	0	12	*
Second Year—Third Term. Spring, 1945							
Tumor Pathology 203.....	1	4	5	12	48	60	3
Pharmacology 202.....	3	3	6	36	36	72	6
Clinical Pathology 204.....	3	8	11	36	96	132	3
Physical Diagnosis 201.....	2	2	4	24	24	48	3
Medicine 202.....	1	3	4	12	36	48	2
Principles of Surgery 201.....	1	2	3	12	24	36	3
Psychobiology 203.....	1	0	1	12	0	12	1

\*Credit at end of course.

**THE DAY-AND-HOUR SCHEDULE****First Year, Fall Term, 1944**

	8	9	10	11	12	1	2	3	4	5
M	Biochem.	Biochemistry					Hist.	Histology		
T	Histol.	Histology					Anatomy			
W	Biochem.	Histology					Anatomy			
Th	Histol.	Histology					Anatomy			
F	Biochem.	Biochemistry					Anatomy			
S										

**First Year, Winter Term, 1945**

	8	9	10	11	12	1	2	3	4	5
M	Biochem.	Biochemistry					Bact.	Anatomy		
T	Anatomy						Embry.	Bacteriology		
W	Biochem.	Embryology					Embry.	Bacteriology		
Th	Antomy						Embry.	Bacteriology		
F	Biochem.	Biochemistry					Bact.	Embryology		
S										

**First Year, Spring Term, 1945**

	8	9	10	11	12	1	2	3	4	5
M	Neuro-anatomy			Physiol.			Anatomy			
T	Neuro-anatomy		Bacteriology				Physiology			
W	Bact.	Physiol.	Bacteriology				Anatomy			
Th	Anatomy		Bacteriology				Physiology			
F	Neuro-anatomy			Physiol.			Anatomy			
S										



**THE DAY-AND-HOUR SCHEDULE****Second Year, Fall Term, 1944**

	8	9	10	11	12	1	2	3	4	5
M		Hygiene	Path.	Physiol.			Pathology			
T		Physiol.	Path.	Pharm.			Physiology			
W	Hygiene	Physiol.	Pathology				Pathology			
Th	Hygiene	Physiol.	Path.	Pharm.			Physiology			
F	Phys. Diagnosis		Path.	Physiol.			Pathology			
S										

**Second Year, Winter Term, 1945**

	8	9	10	11	12	1	2	3	4	5
M		Path.	Pharm.	Obstet.			Physiology			
T	P. Diag.	Physiol.	Pharm.	Surgery			Pharmacology			
W	Med.	Path.	Pharm.	Obstet.			Applied Anatomy	Psych.		
Th	Med.	Physiol.	Pharm.	Surgery			Pathology			
F	Phys. Diagnosis		H. Med.	Obstet.			Applied Anatomy			
S										

**Second Year, Spring Term, 1945**

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	P. Diag.	Cl. Path.				Path.	Pathology		
T	Medicine			Surgery			Clinical Pathology			
W	Surgery		Psych.	Cl. Path.			Pharm.	Pathology		
Th	Med.	P. Diag.	Cl. Path.	Pharm.			Clinical Pathology			
F	Phys. Diagnosis		Clinical Pathology				Pharmacology			
S										

## COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 1 to 99—courses primarily for freshmen and sophomores.

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester.

II—a course offered during the second semester.

I, II—a semester course offered each semester.

Yr.—a continuous course extending through two semesters.

Hrs.—Number of semester hours credit per course.

NOTE—Courses marked "1" are required of first-year students; those marked "2" are required of second-year students.

Under the accelerated program of the School of Medicine the work of the academic year is divided into three terms instead of two semesters as it is in the rest of the University. The credits are, however, reported in semester hours in conformity with the general University practice.

In addition to the required courses there are listed some elective courses for the benefit of other University students who may need them. These courses are still described under the semester plan. They are given only when, in the opinion of the department concerned and of the Dean, it is considered advisable. If there should arise a demand for any of these courses, the Medical School will try to meet the need, but the schedule will be contingent upon the extent to which staff members are occupied with the required medical courses.

### Gross Anatomy and Neuro-anatomy

Professor CHANDLER; Assistant Professors GODWIN<sup>2</sup> and WILLIAMS;  
Instructor DRAGER

- 200.<sup>1</sup> **Gross Anatomy.** 1st term. 4 Hrs. Lecture, 3 hours per week; laboratory, 9 hours.
- 201.<sup>1</sup> **Gross Anatomy.** 2nd term. 3 Hrs. Continuation of Anatomy 200. Lecture, 2 hours per week; laboratory, 8 hours.
- 202.<sup>1</sup> **Gross Anatomy.** 3rd term. 4 Hrs. Continuation of Anatomy 201. Lecture, 3 hours per week; laboratory, 8 hours.
- 203.<sup>1</sup> **Neuro-anatomy.** 3rd term. 3 Hrs. Lecture, 3 hours per week; laboratory, 5 hours.
- 204.<sup>2</sup> **Applied Anatomy.** 2nd term. 2 Hrs. Lecture, 2 hours per week; laboratory, 4 hours.

<sup>2</sup>Resigned September, 1944.

211. **Anatomy of the Sympathetic Nervous System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.
212. **Applied Anatomy of the Pelvis and Perineum.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.
381. **Advanced Anatomy.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Histology and Embryology

Professor DODDS; Assistant Professors GODWIN<sup>2</sup> and WILLIAMS

- 201.<sup>1</sup> **Histology.** 1st term. 5 Hrs. Lecture, 4 hours per week; laboratory, 10 hours.
- 202.<sup>1</sup> **Embryology.** 2nd term. 3 Hrs. Lecture, 3 hours per week; laboratory, 5 hours.
211. **The Histology and Development of the Skeletal System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature.
213. **Advanced Embryology.** I or II. 2-5 Hrs. Topics to be chosen to meet special needs of student. Hours to be arranged. Open to properly qualified students.
381. **Research in Microscopic or Developmental Anatomy.** I or II or Yr. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Biochemistry

Professor MACLACHLAN

- 139 or 239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of plants and animals with special reference to man. PR: Inorganic and organic chemistry. Quantitative analysis desirable. Lecture, 3 hours per week; laboratory, 5 hours. Graduate students required to do one hour additional work per week for 4 hours' credit.
- 201.<sup>1</sup> **Biochemistry.** 1st and 2nd terms. 6 Hrs. Lecture, 3 hours per week; laboratory, 6 hours. Credit at end of course.
211. **Advanced Biochemistry.** I or II. 2-5 Hrs. With special emphasis on biochemical methods. Hours to be arranged. Open to properly qualified students.
381. **Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students.

### Bacteriology and Public Hygiene

Professor SPRAY; Instructors HENN and LEWIS<sup>1</sup>

101. **Pathogenic Bacteriology.** I. 5 Hrs. Required of pharmacy students. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours.
- 202.<sup>1</sup> **Medical Bacteriology.** 2nd and 3rd terms. 5 Hrs. 2nd term: Lecture, 2 hours per week; laboratory, 6 hours. 3rd term: Lecture, 1 hour per week; laboratory, 6 hours. Credit at end of course.
- 203.<sup>2</sup> **Public Hygiene.** 1st term. 2 Hrs. Lecture, 3 hours per week.

<sup>1</sup>On leave of absence for military service.

211. **Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students.
381. **Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 202 or equivalent.

### Physiology

Professor VAN LIERE; Associate Professor NORTHUP; Instructor STICKNEY

101. **Elementary Physiology.** II. 4 Hrs. For pharmacy students. Lecture, 3 hours per week; laboratory, 3 hours.
- 202.<sup>1</sup> **Physiology.** 3rd term. 3 Hrs. Physiology of muscle and nervous system. Lecture, 3 hours per week; laboratory, 5 hours.
- 203.<sup>2</sup> **Physiology.** 1st term. 5 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours.
- 204.<sup>2</sup> **Physiology.** 2nd term. 2 Hrs. Continuation of Physiology 203. Lecture, 2 hours per week; laboratory, 3 hours.
211. **Seminar in Physiology.** Yr. No credit.
212. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged.
213. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged.
214. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged.
381. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the Master of Science degree.

### Pathology

Professor FENTON; Associate Professor DEANGELIS

- 201.<sup>2</sup> **General Pathology.** 1st term. 3 Hrs. Study of general pathology, both gross and microscopic, with demonstrations. Lecture, 2 hours per week; laboratory, 5 hours.
- 202.<sup>2</sup> **Special Pathology.** 1st term. 3 Hrs. A study of special diseases with gross and microscopic specimens from selected autopsies. Lecture, 2 hours per week; laboratory, 6 hours.
- 203.<sup>2</sup> **Pathology of Infectious Granulomas and Tumors.** 2nd and 3rd terms. 3 Hrs. 2nd term: Lecture, 2 hours per week; laboratory, 3 hours. 3rd term: Lecture, 1 hour per week; laboratory, 4 hours. Credit at end of course.
- 204.<sup>2</sup> **Clinical Pathology.** 3rd term. 3 Hrs. A laboratory course in blood, gastric contents, urine, etc., and their pathological and clinical significance. Lecture, 3 hours per week; laboratory, 8 hours.
211. **Pathology (Advanced).** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 201.
381. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Pharmacology

Associate Professor MARSH; Instructor ROSS; Lecturers TUCKER and HAYMAN

- 201.<sup>2</sup> **Introductory Pharmacology.** 1st term. 1 Hr. Lecture, 2 hours per week. Sources and types of drugs; incompatibilities; weights and measures; narcotic laws; and prescription writing. Given by Dean Hayman.

- 202.<sup>2</sup> Medical Pharmacology and Pharmacodynamics.** 2nd and 3rd terms. 6 Hrs. 2nd term: Lecture, 4 hours per week; laboratory, 3 hours. 3rd term: Lecture, 3 hours per week; laboratory, 3 hours. Credit at end of course.
- 211. Biochemorphology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 202, or Chemistry 238 or 277.
- 212. Bioassay and Comparative Pharmacology.** I and II. 3 Hrs. Lecture and demonstrations, 2 hours per week; laboratory, 3 hours. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 202; or Chemistry 238 or 277 and Histology 201; or Pharmacy 110.
- 213. Introductory Therapeutics.** II. 1 Hr. Lecture, 1 hour per week. PR: Pharmacology 202.
- 214. Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week; laboratory, 3 hours. PR: Physiology 202.
- 381. Research in Pharmacology.** I and II. 2-5 Hrs. Hours to be arranged. PR: Graduate status in physiology, chemistry, or agriculture.

### Medicine

Associate Professors LAWLESS and DEANGELIS; Assistant Professors MAXWELL, WHITTLESEY, SALKIN, and SLEETH<sup>1</sup>; Instructors JOHNSON, STARKEY, IRELAND, TEITELBAUM, and BUTLER

- 201.<sup>2</sup> Physical Diagnosis.** Yr. 3 Hrs. 1st term: Medical clinic—demonstration of clinical cases, 2 hours per week. 2nd term: Lecture, 1 hour per week; laboratory, 2 hours. 3rd term: Lecture, 2 hours per week; practical work with patients. 2 hours. Hospital clerkship at Hopemont Sanitarium, 1 week. Credit at end of course.
- 202.<sup>2</sup> Introductory Medicine.** 2nd and 3rd terms. 2 Hrs. 2nd term: Lecture, 1 hour per week; demonstration of clinical cases, 1 hour. 3rd term: Lecture, 1 hour per week; demonstration of clinical cases, 3 hours. Medical clerkship at Hopemont Sanitarium, 1 week. Credit at end of course.
- 203.<sup>2</sup> Psychobiology.** 2nd and 3rd terms. 1 Hr. Introduction to the study of human personality, normal and abnormal. Lecture, 1 hour per week. Credit at end of course.

### Introductory Surgery

Associate Professor PRIDE

- 201.<sup>2</sup> Principles of Surgery.** 2nd and 3rd terms. 3 Hrs. 2nd term: Lecture, 2 hours per week. 3rd term: Lecture, 1 hour per week; demonstrations of clinical cases and operative technique, 2 hours. Credit at end of course.

### Obstetrics

Professor VAN LIERE

- 201.<sup>2</sup> Obstetrics.** 2nd term. 2 Hrs. An introductory course in obstetrics. Lecture, 3 hours per week.

### History of Medicine

Professor CHANDLER

- 204.<sup>2</sup>** 2nd term. No credit. A brief history of the development of the science and art of medicine. Lecture, 1 hour per week.

<sup>1</sup>On leave of absence for military service.

## THE LIST OF STUDENTS, 1944-45

### Class Entering September 25, 1944

BARBERIA, REGINA MARGARET.....		Morgantown
A. B., West Virginia University, 1943.		
COFER, RICHARD SAUNDERS, JR.....	V-12	Norfolk, Va.
CONN, LEE ROY MINOR.....		Blacksville
DAVIS, ALBERT JAMES, JR.....	V-12	Danville, Va.
DEEM, THOMAS RICHARD.....		Parkersburg
DONELL, NEVEA ILDA.....		Weirton
A. B., West Virginia University, 1944.		
FELDER, EDWARD ARNOLD.....	V-12	Norwich, Conn.
GORDON, PAUL EDWIN.....		Clarksburg
GRECO, ROBERT.....		Everettsville
HARDMAN, THOMAS BROCK.....		Morgantown
HUDNALL, LEONARD PRESTON.....		Pratt
HULL, ERNEST QUENTIN.....		Charleston
KINCAID, WILLIAM EUGENE.....		Parkersburg
LILLY, RICHARD VERNON.....	V-12	Athens
MCIPHERSON, EWING WILLIAM.....	V-12	Derby, Va.
B. S., Emory and Henry College, 1944.		
MOORE, MICHAEL JUDSON.....		Affinity
MORGAN, WILLIAM C, JR.....	V-12	Welch
MULLINS, DAVID WALKER.....		Logan
NATTERSON, JOSEPH MORTON.....	V-12	Wheeling
NICHOLS, JOHN MARSHALL.....		Charleston
A. B., West Virginia University, 1943.		
O'HARA, ALBERT EDWARD.....		Weston
B. S., West Virginia Wesleyan College, 1944.		
REYNOLDS, RAYMOND JULIUS.....		Charleston
RICHARD, ROBERT EARL.....		Morgantown
RODGERS, JOHN THOMAS.....		Wellsburg
SARRELL, WARREN GLEA.....	V-12	Copperhill, Tenn.
STEPHENS, RICHARD SAMUEL.....		Bluefield
A. B., West Virginia University, 1944.		
STOCKDALE, DONALD KARL.....	V-12	Morgantown
TOWNSEND, CLARENCE VINCENT.....		Martinsburg
A. B., West Virginia University, 1944.		
WINGFIELD, ROBERT CLARK.....		Elkins
A. B., West Virginia University, 1944.		
WYSONG, ROBERT GERALD.....		Clarksburg
A. B., West Virginia University, 1944.		

**Class Entering December 27, 1943****Began Second Year September 25, 1944**

BERRY, RICHARD WAITMAN	V-12	Flatwoods
A. B., West Virginia University, 1944.		
COFFIELD, ELMOND LEMOYNE	ASTP	Morgantown
A. B., West Virginia University, 1944.		
FERRARA, EMIL JOSEPH	ASTP	Morgantown
A. B., West Virginia University, 1944.		
FIKE, VERNETTA EILEEN		Morgantown
GRECO, RAY SILVIO	V-12	Fairmont
A. B., West Virginia University, 1944.		
HAUGHT, DAVID ALONZO, JR.	V-12	Huntington
B. S. in Pharmacy, West Virginia University, 1943.		
HEROLD, WILLIAM SAWYERS		Summersville
A. B., West Virginia University, 1944.		
JARRELL, SHELBY EDWARD	ASTP	Packsville
LOGUE, CLARENCE ARCHIE	V-12	Newell
LORIA, LOUIS AMADEA	ASTP	Hepzibah
A. B., West Virginia University, 1944.		
MORGAN, MARGARET		Beckley
A. B., West Virginia University, 1944.		
MORGAN, RICHARD YOUNG	ASTP	Beckley
A. B., West Virginia University, 1944.		
MYERS, KARL JOHNSON, JR.	ASTP	Philippi
A. B., West Virginia University, 1944.		
PECK, FRANK McDONALD		Logan
A. B., West Virginia University, 1943.		
PECK, JAMES WILLIAM	V-12	Summersville
PHILLIPS, WILLIAM ALLAN	V-12	Wheeling
A. B., West Virginia University, 1944.		
POSKE, ROBERT MARTIN	ASTP	Parkersburg
B. S., West Virginia University, 1944.		
SALVATI, EUGENE PHILIP	ASTP	Holden
A. B., West Virginia University, 1944.		
STUTZMAN, LEON		Shepherdstown
A. B., West Virginia University, 1944.		
TEMELES, ROY SHERMAN	ASTP	Weirton
A. B., West Virginia University, 1944.		
THACKER, CHARLES WOODROW	V-12	Philippi
THOMPSON, JAMES ALPHA	ASTP	Clarksburg
A. B., West Virginia University, 1944.		
TULLY, CARL CHRISTOPHER	ASTP	Charleston
B. S., Morris Harvey, 1937.		
WALKER, WILLIAM NELSON, JR.	V-12	Bridgeport
A. B., West Virginia University, 1943.		
WILLIAMS, WILLIAM TILDEN		Beckley
A. B., West Virginia University, 1944.		

NOTE—ASTP or V-12 following the names of students indicates that they are carrying their medical work as enlisted men in either the Army or Navy.

## Class Entering March 22, 1943

Completed the Second Year September 16, 1944

BERMAN, RALPH EPHRAM	ASTP	Beckley
A. B., West Virginia University, 1944.		
BING, JOHN PAUL	ASTP	Mt. Hope
COUNTS, EDWARD FRANKLIN, JR.	ASTP	So. Charleston
A. B., West Virginia University, 1944.		
CURRY, WYSON JUNIOR	ASTP	Montgomery
B. S., West Virginia Institute of Technology, 1942.		
FLEMING, ARTHUR RAY	ASTP	Buckhannon
GARRETT, GENEVIEVE M.		Morgantown
A. B., West Virginia University, 1943.		
HEINLEIN, RUSSELL L.	ASTP	Sistersville
A. B., West Virginia University, 1944.		
HOLCOMB, CHARLES WILLIAM	V-12	Sutton
HUTTON, EUGENE ELIHU	ASTP	Huttonsville
B. S., Davis and Elkins, 1934.		
M. S., West Virginia University, 1940.		
KNOX, KENNETH RAVEN	ASTP	Huntington
B. S., West Virginia Wesleyan College, 1943.		
LARRICK, ROBERT VERNON	ASTP	Capon Bridge
A. B., Shepherd College, 1941.		
LEMON, GEORGE L.	ASTP	Lewisburg
A. B., West Virginia University, 1944.		
LINDSEY, SHERMAN BRANCE	ASTP	Philippi
A. B., West Virginia University, 1944.		
MCCUNE, WILLIAM RICHARD	V-12	Gassaway
A. B., West Virginia University, 1944.		
MCDONALD, JACK HOMER	V-12	Mt. Hope
B. S., West Virginia Wesleyan College, 1943.		
MATHIAS, JAMES DOLAN	ASTP	Mathias
A. B., West Virginia University, 1944.		
MORRIS, GEORGE LYLE, JR.	ASTP	Ameagle
A. B., West Virginia University, 1944.		
PANTALONE, ALBERT	ASTP	Farmington
A. B., West Virginia University, 1943.		
SKAGGS, JOSEPH THOMAS	ASTP	Montgomery
A. B., West Virginia University, 1944.		
STANSBURY, FRED, JR.	ASTP	Glen Daniel
A. B., West Virginia University, 1944.		
STOOLFIRE, ARTHUR WALDO	V-12	Valley Grove
A. B., West Virginia University, 1944.		
THIERS, GEORGE FREDERICK	ASTP	Hollidays Cove
A. B., West Virginia University, 1944.		
WALLACE, RICHARD CUSTER	ASTP	So. Charleston
B. S., Marshall College, 1944.		
WARD, CHARLES E.	ASTP	Morgantown
B. S., West Virginia University, 1940.		
WARNOCK, JACK WOODSON	ASTP	Huntington
WEISS, WILLIAM H.	V-12	Fairmont
A. B., West Virginia University, 1944.		
ZEKAN, JOHN GEORGE	ASTP	Brownnton
A. B., West Virginia University, 1943.		



**WEST VIRGINIA UNIVERSITY  
THE SCHOOL OF MEDICINE  
Morgantown, W. Va.**

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**CURRICULUM IN MEDICAL TECHNOLOGY**

**General Information**

The School of Medicine announces the establishment of a curriculum in Medical Technology, leading to the degree of Bachelor of Science (Medical Technology). This curriculum prepares students to serve as technicians in hospitals, clinics, research laboratories, etc., and in offices of private physicians.

Training standards for laboratory technicians are under the general supervision of the Council on Medical Education and Hospitals of the American Medical Association, which inspects, evaluates, and approves schools. In this field, properly qualified persons, upon passing the required examinations, may be certified by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

During the first two years the student is registered in the College of Arts and Sciences and is under the supervision of the pre-medical adviser. These two years are considered as a preliminary training.

The third and fourth years include the specialized and technical training of the curriculum. Many of the courses are given by regular members of the medical faculty. During these years the student is under the jurisdiction of the School of Medicine. But these students are not to be regarded as medical students, nor can any courses taken during these years be counted toward the M. D. degree.

The work of the last year is largely individual in nature, carried on in various laboratories. The students are considered as temporary members of the laboratory staff and are subject to the usual staff regulations.

**Requirements for Admission**

- (a) Admission requirements to the first year are the same as for the College of Arts and Sciences of West Virginia University, namely, 15 units of high-school work, including the subjects specified in the University catalogue.
- (b) For admission to the third year, the first two years of the curriculum outlined below must be completed, either in West Virginia University or in other institutions of recognized standing. But completion of this curriculum does not assure admission to the third year.
- (c) Only a limited number of students can be accommodated. Preference is given to residents of West Virginia. Application should be made on forms obtainable from the Medical School and presented at the office of the Dean of the School of Medicine. Applications will be considered after the scholastic records for three semesters is available.

## Requirements for the Degree

The degree, Bachelor of Science (Medical Technology), will be given upon completion of the curriculum outlined below.

### Fees

For the first two years, students pay the regular fees charged in the College of Arts and Sciences. In the last two years, while students are under the jurisdiction of the School of Medicine, there is an additional tuition fee of \$25 per semester.

### Committee on Medical Technology

E. J. VAN LIERE (Dean of Medical School), *Chairman*.

G. S. DODDS (Chairman of Committee on Entrance and Scholarship).

C. C. FENTON (Professor of Pathology and Clinical Pathology).

DAVID SALKIN (Superintendent of Hopemont Sanitarium and Assistant Professor of Medicine, W. V. U.).

MARY J. HENN (Registered Medical Technologist and Instructor in Bacteriology).

## THE CURRICULUM

During the first two years the student is registered in the College of Arts and Sciences.

First Year				Second Year			
First Sem	Hrs.	Second Sem.	Hrs.	First Sem.	Hrs.	Second Sem	Hrs.
Chemistry 3	4	Chemistry 4	4	Chemistry 5	4	Chemistry 15	4
Zoology 1	4	Zoology 2	4	English 3	3	English 4	3
English 1	3	English 2	3	Modern lang.	3	Modern lang.	3
Modern lang.	3	Modern lang.	3	Physics 1 to 3	4	Physics 2 to 4	4
Electives	2	Electives	2	Electives	2	Electives	2
Physical educ.	1	Physical educ.	1	Physical educ.		Physical educ.	1
Military	1	Military	1	(women)	1	Military	2
				Military	2		
	18		18		19		19

During the last two years the student is under the jurisdiction of the School of Medicine.

Third Year				Fourth Year			
First Sem.	Hrs.	Second Sem.	Hrs.	First Sem.	Hrs.	Second Sem.	Hrs.
Bacteriol. 101	5	Physiol. 101	4	Urine Analysis	5	Clinical Pathol.	3
Organic Chem.		Biochem. 239	4	Normal Hem-		Appl. Bacteriol.	4
131	4	Parasitol. 120	3	atology	4	Special Hem-	
Zoology 231	4	Electives	5	Microtech-		atology	3
Electives	4			nique	3	Metabolimetry	3
				Applied Serol-		Electro-	
				ogy	4	cardiogr.	2
				Applied Para-		Electives	2
				sitol.	1		
	17		16		17		17

# **West Virginia University Bulletin**

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Series 46, No. 9-1

March 1946

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## **CATALOGUE**

### **THE SCHOOL OF MEDICINE**

#### **THE 1945-46 SESSION**

##### **THE CURRICULUM IN MEDICINE**

##### **THE CURRICULUM IN MEDICAL TECHNOLOGY**



#### **ANNOUNCEMENTS OF THE 1946-47 SESSION**

**MORGANTOWN, WEST VIRGINIA**

**Published by the University**

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**Issued Monthly**

## YEAR 1946

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>6</b>	<b>7</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>2</b>	<b>7</b>	<b>8</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>			<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>28</b>	<b>29</b>	<b>30</b>				
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>2</b>	<b>3</b>
<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>		<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>				<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
<b>29</b>	<b>30</b>						<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>			<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>29</b>	<b>30</b>	<b>31</b>				

## YEAR 1947

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>
<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>			<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>						<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>			
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>2</b>
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>			<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b>					<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>		<b>30</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>			

The days on which the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type.

# The University Calendar

1946

June 1, Saturday	Alumni Day
June 2, Sunday	Baccalaureate Exercises
June 3, Monday	Commencement Day
June 5, Wednesday	Registration for first term, Summer Session
June 6, Thursday	First recitations, Summer Session
July 4, Thursday, to July 7, Sunday, inclusive	Independence Day recess
July 16, Tuesday	Close of first term, Summer Session
July 17, Wednesday	Registration for second term, Summer Session
July 18, Thursday	First recitations, second term, Summer Session
August 23, Friday	Close of Summer Session
September 13, Friday, to September 18, Wednesday, inclusive	Freshman Week Program
September 16, 17, and 18, Monday, Tuesday, and Wednesday	Registration for first semester
September 19, Thursday	First recitations, first semester
October 8, Tuesday	Meeting of University Senate
November 8, Friday	Mid-semester reports due
November 28, Thursday, to December 1, Sunday, inclusive	Thanksgiving recess
December 21, Saturday, to January 2, Thursday, inclusive	Christmas recess

1947

January 18, Saturday, to January 25, Saturday, inclusive	Final examinations for first semester
January 28 and 29, Tuesday and Wednesday	Registration for second semester
January 30, Thursday	First recitations, second semester
February 11, Tuesday	Meeting of University Senate
March 21, Friday	Mid-semester reports due
April 3, Thursday, to April 9, Wednesday, inclusive	Easter recess
May 13, Tuesday	Meeting of University Senate
May 22, Thursday, to May 29, Thursday, inclusive	Final examinations for second semester
May 30, Friday	Memorial Day, a holiday
May 31, Saturday	Alumni Day
June 1, Sunday	Baccalaureate Exercises
June 2, Monday	Commencement Day

The University Calendar is subject to change without notice.

# West Virginia University

Morgantown

Established February 7, 1867

## The West Virginia Board of Control

	TERM EXPIRES
JOSEPH Z. TERRELL, PRESIDENT, <i>Clarksburg</i> .....	June 30, 1949
DELL WHITE, SECRETARY, <i>Madison</i> .....	June 30, 1949
L. STEELE TROTTER, TREASURER, <i>Charleston</i> .....	June 30, 1951

The West Virginia Board of Control has the direction of the financial and business affairs of the state educational institutions.

## The Board of Governors

	TERM EXPIRES
RAYMOND E. SALVATI, PRESIDENT, <i>Huntington</i> .....	1949
A. C. SPURR, VICE-PRESIDENT, <i>Fairmont</i> .....	1946
MRS. GEORGE D. HILL, <i>Camden-on-Gauley</i> .....	1948
WILLIAM G. THOMPSON, <i>Montgomery</i> .....	1946
THOMAS L. HARRIS, M. D., <i>Parkersburg</i> .....	1949
E. G. OTEY, <i>Bluefield</i> .....	1949
K. DOUGLAS BOWERS, <i>Beckley</i> .....	1948
CHARLES T. NEFF, JR., SECRETARY, <i>Morgantown</i>	

The Board of Governors has charge of the educational and administrative affairs of the University.

JARRETT PRINTING COMPANY, CHARLESTON, W. VA



## ADMINISTRATION

CHARLES THOMPSON NEFF, JR., A. B., *Acting President of the University*

EDWARD JERALD VAN LIERE, *Dean and Professor of Physiology*

B. A., M. S., M. D., PH. D., F. A. C. P.

JOHN NATHAN SIMPSON, *Dean Emeritus*

A. B., M. D., F. A. C. P.

## THE FACULTY

### Professors

EDWARD JERALD VAN LIERE, *Professor of Physiology and Dean*

B. A., M. S., University of Wisconsin, 1915, 1916; M. D., Harvard University, 1920; PH. D., University of Chicago, 1927; F. A. C. P.

GIDEON STANHOPE DODDS, *Professor of Histology and Embryology, and Chairman of Committee on Entrance and Scholarship*

B. A., M. A., University of Colorado, 1904, 1905; PH. D., University of Pennsylvania, 1910.

CLEMENT COLEMAN FENTON, *Professor of Pathology and Clinical Pathology*

A. B., Columbia University, 1915; M. S., West Virginia University, 1922; M. D., Cornell University, 1925; F. A. C. P.

ROBB SPAULDING SPRAY, *Professor of Bacteriology and Public Hygiene*

B. S., Purdue University, 1914; M. S., Pennsylvania State College, 1917; PH. D., University of Chicago, 1923.

SIMON B. CHANDLER, *Professor of Gross Anatomy and Neuro-anatomy*

A. B., University of Missouri, 1922; A. M., M. D., Northwestern University, 1926, 1927.

PERCIVAL LLOYD MACLACHLAN, *Professor of Biochemistry*

B. A., Queens University, 1931; PH. D., University of Rochester, 1935.

### Associate Professors

DAVID WILMARTH NORTHUP, *Associate Professor of Physiology*

A. B., Reed College, 1930; A. M., University of Oregon, 1932; PH. D., University of Illinois, 1935.

CECIL BENJAMIN PRIDE,<sup>1</sup> *Associate Professor of Surgery*

A. B., Ohio Wesleyan University, 1916; B. S., West Virginia University, 1921; M. D., Western Reserve University, 1923; F. A. C. S.

JOHN JOSEPH LAWLESS, *Associate Professor of Medicine and Director of University Health Service*

B. S., M. A., PH. D., University of Minnesota, 1930, 1931, 1934; M. D., Rush Medical College, 1939.

EUGENE DEANGELIS, *Associate Professor of Pathology and Physician in University Health Service*

B. S., West Virginia University, 1935; M. B., M. D., Northwestern University, 1938, 1939.

<sup>1</sup>Part-time. In private practice.

DAVID FIELDING MARSH, *Associate Professor of Pharmacology*

A. B., West Virginia University, 1939; M. S., Purdue University, 1940;  
Ph. D., University of California, 1942.

FRANK NORMAN LOW, *Associate Professor of Anatomy*

A. B., Ph. D., Cornell University, 1932, 1936.

### Assistant Professors

GEORGE RALPH MAXWELL, *Assistant Professor of Medicine (Physical Diagnosis)*

B. S., West Virginia University, 1921; M. D., University of Cincinnati,  
1923; F. A. C. P.

CLARK KENDALL SLEETH, *Assistant Professor of Medicine and Physician in  
University Health Service*

A. B., B. S., West Virginia University, 1933, 1935; M. D., University of  
Chicago, 1938.

FREDERICK RENDELL WHITTLESEY,<sup>1</sup> *Assistant Professor of Medicine*

A. B., Wooster College, 1921; M. D., Western Reserve University, 1925;  
F. A. C. P.

DAVID SALKIN, *Assistant Professor of Medicine (Physical Diagnosis)*

(*Superintendent of Hopemont Sanitarium*)

M. D., University of Toronto, 1929; F. A. C. P.

THOMAS WALLEY WILLIAMS, *Assistant Professor of Histology and Anatomy*

B. S., M. S., Ph. D., University of Pittsburgh, 1934, 1937, 1939.

JOHN CLIFFORD STICKNEY, *Assistant Professor of Physiology*

B. S., Wheaton College, 1933; M. S., University of Washington, 1936;  
Ph. D., University of Minnesota, 1940.

### Instructors

CARL EDWARD JOHNSON,<sup>1</sup> *Instructor in Medicine (Physical Diagnosis)*

A. B., B. S., West Virginia University, 1923, 1925; M. D., Northwestern  
University, 1928; F. A. C. P.

ARCHIE LEMUEL STARKEY, *Instructor in Medicine (Physical Diagnosis)*

(*Physician in Hopemont Sanitarium*)

B. S., West Virginia University, 1924; M. D., University of  
Arkansas, 1937.

CHARLES LEWIS,<sup>2</sup> *Instructor in Bacteriology*

A. B., Ohio State University, 1940; M. S., West Virginia University, 1941.

MARY JOSEPHINE HENN, *Instructor in Bacteriology*

A. B., University of Nebraska, 1940; M. S., University of Minnesota, 1944.

CHARLES ALBERT ROSS, *Instructor in Pharmacology*

B. S., Purdue University, 1940; M. S., University of Kentucky, 1942.

### Assistants

JANIS GOVER, *Assistant in Biochemistry*

A. B., West Virginia University, 1945.

<sup>1</sup>Part-time. In private practice.

<sup>2</sup>On leave of absence for military service.



### Lecturers

- ELDON BRYANT TUCKER,<sup>1</sup> *Lecturer in Pharmacology (Anesthesiology)*  
B. S., West Virginia University, 1919; M. D., University of Cincinnati, 1921.
- JOSEPH LESTER HAYMAN, *Lecturer on Prescription Writing and on food, drug, and narcotic laws relating to physicians*  
(*Dean and Professor of Pharmacognosy, College of Pharmacy*)  
Ph. C., M. S., University of Michigan, 1919, 1925.

### Technicians

- DAVID SAMUEL BARRICKMAN, *Technician in Anatomy and Histology*  
B. S., M. S., West Virginia University, 1932, 1933.
- VESTA EMILY ANDERSON, *Technician in Pathology*
- ERNEST JOHNSON, *Technician in Bacteriology*
- LELA VIRGINIA STUMP, *Technician in Pathology*  
M. T., Jefferson Medical College, 1945.

### Clerical

- FLORENCE ELLIOTT WEAVER, *Secretary*
- EDITH MAE ROSS, *Assistant Secretary and Record Clerk*

## THE UNIVERSITY HEALTH SERVICE

### Physicians

- JOHN JOSEPH LAWLESS, *Director of University Health Service and Associate Professor of Medicine*  
B. S., M. A., Ph. D., University of Minnesota, 1930, 1931, 1934; M. D., Rush Medical College, 1939.
- SAMUEL JOHN MORRIS, *Physician and Medical Adviser to the Department of Athletics*  
M. D., University of Maryland, 1912.
- CLARK KENDALL SLEETH, *Physician and Assistant Professor of Medicine*  
A. B., B. S., West Virginia University, 1933, 1935; M. D., University of Chicago, 1938.
- EUGENE DEANGELIS, *Physician and Associate Professor of Pathology*  
B. S., West Virginia University, 1935; M. B., M. D., Northwestern University, 1938, 1939.

### Nurses

- ETHEL FEATHER ELLIS, *Nurse in the University Health Service*
- BETTY EMERSON, R. N., *Nurse in the University Health Service*
- PEARL BENVENUTO, R. N., *Nurse in the University Health Service.*
- Other nurses as needed for patients in Infirmary.

<sup>1</sup>Part-time. In private practice.

### Technicians

FABRY LIVINGSTON HAWK, *Chief Technician in the University Health Service*  
Registered Medical Technologist.

AILON BURFORD LINGAR,<sup>2</sup> *Technician in the University Health Service*  
A. B., West Virginia University, 1942.

CHARLES ERNEST HOLLANDSWORTH,<sup>2</sup> *Technician in the University Health Service*

### Clerical

HELEN CLARISSA O'NEIL, *Secretary in the University Health Service*

ELINOR ANDERSON, *Clerk in the University Health Service*  
A. B., West Virginia University, 1941.

### THE STANDING COMMITTEES

EXECUTIVE: E. J. VAN LIERE (*chairman*), G. S. DODDS, F. R. WHITTLESEY,  
and C. B. PRIDE.

ENTRANCE AND SCHOLARSHIP: G. S. DODDS (*chairman*), S. B. CHANDLER,  
C. C. FENTON, and P. L. MACLACHLAN.

LIBRARY: S. B. CHANDLER (*chairman*), G. S. DODDS, J. C. STICKNEY, P. L.  
MACLACHLAN, and C. K. SLEETH.

RESEARCH: E. J. VAN LIERE (*chairman*), D. W. NORTHUP, D. F. MARSH, and  
P. L. MACLACHLAN.

SEMINARS: G. S. DODDS (*chairman*), J. C. STICKNEY, C. C. FENTON, E. J. VAN  
LIERE, and C. K. SLEETH.

CLINICAL AND SPECIAL FACILITIES: J. J. LAWLESS (*chairman*), C. B.  
PRIDE, C. C. FENTON, G. R. MAXWELL, F. R. WHITTLESEY, and C. K.  
SLEETH.

CURRICULUM: G. S. DODDS (*chairman*), P. L. MACLACHLAN, E. J. VAN LIERE,  
D. F. MARSH, and C. K. SLEETH.

STUDENT LOANS AND SCHOLARSHIPS: E. J. VAN LIERE (*chairman*),  
G. S. DODDS, P. L. MACLACHLAN, and J. C. STICKNEY.

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<sup>2</sup>On leave of absence for military service.

## **GENERAL INFORMATION**

From June 1, 1942, until June 16, 1946, the Medical School has operated on an accelerated schedule made necessary by the war emergency. Beginning with the year 1946-47 the School will follow the regular University Schedule.

### **Instruction in Medicine**

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### **Agreement With Medical College of Virginia**

Only the first two years of medicine are given at West Virginia University. There has been made an agreement with the Medical College of Virginia at Richmond for the transfer of as many as twenty students, residents of West Virginia, who have completed the first two years at West Virginia University. At the Medical College of Virginia these students will pay the same tuition as paid by the residents of Virginia. Upon graduation, diplomas will be issued jointly by the two schools. Other students in the class may, as in the past, transfer to various medical schools for the completion of their work.

### **Buildings and Equipment**

#### **THE MEDICAL BUILDING, LABORATORIES, AND CLASSROOMS**

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the Dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in a separate building.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center: a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

### LIBRARY

The Medical Library is not organized as a separate unit but is housed in the University Library Building, where publications of prime importance to the students and Faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building which is adjacent to the Library Building. Additional current issues of essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 13,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with the pre-clinical fields for the most part but comprising also the better representative works in internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and the history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, the Library of Congress, or other libraries. Complete sets of various abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library, and a member of the Staff also represents the School of Medicine on the general Library Committee of the University.

### Living Accommodations

The University maintains three large dormitories, one for men and two for women. Cost of room and board in all dormitories ranges from \$360 to \$420 per academic year of 9 months. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Director of Residences and Commons, West Virginia University, Morgantown.

Medical students, in the main, must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For

further information concerning houses on the approved list, men should address the office of Mr. H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University.

### **Cost of a Year's Work**

Textbooks and supplies will cost about \$50 to \$75 per academic year. Registration fees for residents are \$254; for non-residents, \$404 per academic year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month session for medical students in residence will range from \$750 to \$1,000, exclusive of traveling expenses.

### **LOANS FOR MEDICAL STUDENTS**

It frequently happens that students otherwise well qualified for the study of medicine are short of funds to defray the necessary expenses. For the assistance of such students there are available certain loans, some specifically for medical students, others available to students of all colleges in the University. For information about loans, inquiries should be made to Mr. Harry E. Stone, Secretary, Committee on Prizes, Scholarships, and Loan Funds, West Virginia University, Morgantown.

### **The University Health Service**

The University Health Service, organized as a division in the School of Medicine, provides medical service to all students in the University and supervises health conditions on the campus. Each regularly enrolled University student pays a fee which provides for medical consultation and advice from the University physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. The student's medical fee includes an insurance charge to provide hospitalization for acute illness not to exceed 30 days in a school year. Room charges up to \$5 daily and operating room fees are provided for, but professional fees arising out of such hospitalization are not included. All students receive a complete physical examination, including blood tests, urinalysis, and chest X-ray, during their first semester in the University. In addition the Health Service provides special examinations to students, to University food handlers, and to others, as may be required for University purposes. The University Pharmacy, operated by the College of Pharmacy, supplies prescribed medication at nominal charges.

The staff of the Health Service includes four physicians, three nurses, and two laboratory technicians. The Departments of Pathology and Bacteriology cooperate in various diagnostic laboratory procedures.

The Health Service occupies a well-designed University Health Center constructed in 1941. The three-story building, centrally located on the campus, fronting on College Avenue adjacent to Reynolds Hall, is a T-shaped structure of brick and concrete, with a front width of 88 feet and a depth of 68 feet.

On the first floor are the receiving room, the office of the secretary, offices for four physicians, a room for minor surgery, and a treatment room. One room on this floor is assigned to the University Pharmacy. On the second floor is the diagnostic laboratory equipped for serological, chemical, bacteriological, and hematological examinations. The X-ray unit, equipped for fluoroscopy and radiography, and with a photo-roentgen unit, is located in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor also are rooms occupied by the Department of Pathology of the School of Medicine. These include a student laboratory, pathological museum, preparation room, stock room, and the necessary offices and individual laboratories. The third floor is designed for the hospitalization of students. On the main corridor are rooms accommodating 16 hospital beds. In the rear wing, on a private corridor, are two isolation wards with seven beds for contagious diseases. This corridor has its own bath, toilet, diet kitchen, and utility room. The third floor also includes a room equipped for electrocardiography and basal metabolism testing, and a three-room suite designed as living quarters for nurses.

### **Clinical and Special Facilities**

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine:

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the Heiskeil Memorial Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia County, the Department of Pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the Heiskeil Memorial Hospital, the Monongalia General Hospital, and the Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

## **Seminar**

On alternate Friday afternoons at 4 o'clock there is held a seminar attended by Faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the Faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

## **Journal Club**

The Journal Club, organized by the Faculty of the School of Medicine, meets once each week during the Fall, Winter, and Spring terms. At each meeting a member presents for discussion a report of outstanding papers published in his field of interest. Students and Faculty are invited to attend and to join in the discussions.

## **Organizations and Lectureships**

### **ALUMNI ASSOCIATION**

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

### **JOHN NATHAN SIMPSON LECTURESHIP**

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, Dean Emeritus of the School of Medicine, giving an annual lecture by some one distinguished in medical research or practice.

## **REQUIREMENTS FOR ADMISSION**

The requirements for admission to the Medical School of West Virginia University conform to the standards of the Association of American Medical Colleges and the Council on Medical Education and Hospitals of the American Medical Association; however, they exceed the minimum standards of those associations.

All applications for admission are passed upon by the Committee on Entrance of the Medical School, composed of four members of the Medical Faculty. Admission is by recommendation of this Committee and with the approval of the Dean of the School.

It is anticipated that, under the unusual conditions following the close of the war, the Entrance Committee may have to exercise considerable discretion in the application of entrance standards, inasmuch as there may be some excellent applicants whose training does not conform in full detail to the published requirements yet may represent an equivalent degree of training.

### **1. Subject Requirements for Admission**

To be eligible for admission, the applicant must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college. Credits submitted by applicants for work done

elsewhere than in West Virginia University are evaluated by the Registrar of the University and must meet the general standards set by the University for acceptance of credits by transfer.

A detailed statement of subject requirements follows:

### Secondary-school Credits Required

For admission to the Medical School the applicant must have credit for at least 15 units of high-school work. This must include four units of English,\* two of mathematics (algebra, one, and plane geometry, one), and other subjects as specified in the general admission requirements of the University. The School of Medicine strongly urges two units of Latin.

### College Credits Required

The applicant must have credit for at least three years in a college of recognized standing. This credit must total at least 90 semester hours exclusive of military and physical education.

The council on Medical Education and Hospitals of the American Medical Association publishes a list of about seven hundred colleges which it approves for pre-medical education. Medical schools must give preference to applicants from the institutions on this list. Schools may accept students from other institutions only when they show evidence of superior ability, as indicated by adequate credits and superior grades. Students planning pre-medical work should consult the Medical School or other authentic source for information about approved colleges.

The following subjects and hours are the minimum requirements for admission. They must be met in full before enrollment in the Medical School.

English, composition and rhetoric.....	6 hours
Biological sciences .....	12 hours
This should be mainly zoology and should include an advanced course in comparative anatomy of the vertebrates.	
Chemistry .....	20 hours
Six hours of this must be organic chemistry, which should include adequate training in both aliphatic and aromatic chemistry.	
Physics .....	8 hours
Psychology .....	3 hours
A modern foreign language.....	12 hours

Preferably French or German

Other subjects to meet the required number of hours.

Mathematics is strongly recommended. Algebra and trigonometry should be taken early enough that they may be useful in the courses in physics and chemistry.

Pre-medical students should not take courses in human anatomy, histology, biological chemistry, human physiology, medical bacteriology, or other subjects which are in any sense a duplication of courses given in Medical School. Such courses will not be accepted as satisfying any part of the entrance requirements in biological science or chemistry.

The 12 hours of modern language must be taken in one language. Applicants who have had two units in high school may satisfy the requirement by taking 6 hours of advanced college work in the same language.

\*Students who present only 3 units of high-school English are required to take 6 hours of college English in addition to the 6 hours required for entrance to the School of Medicine.



Applicants who have not had Latin in high school are urged to take a year of Latin in college.

Electives should be so chosen as to give a broad education with adequate training outside the required pre-medical sciences. The following fields are suggested: art (drawing), botany, economics, genetics, geology, history, mathematics, speech, political science, and sociology.

## 2. Scholarship

The number of students that can be admitted is definitely limited. The School reserves the right to reject any applicants whose pre-medical records are of unsatisfactory standing. Students are chosen from the better-qualified applicants, and for several years all places have been filled by students from the upper half of the pre-medical classes, whose average grades were above "C". Experience has shown that usually only such students are able successfully to carry the work of the Medical School.

In computing average grades of students applying for admission to the School of Medicine, grades are expressed in numerical points per semester hours as follows:

A .....	3	D .....	0
B .....	2	E .....	minus 1
C .....	1	F .....	minus 2

These values are applied to all courses for which the student has registered (military and physical education excepted) in all institutions attended. When grades are expressed in a system different from the one used at West Virginia University, the values are adjusted to give an equivalent measure of accomplishment.

## 3. Medical-aptitude Test

Applicants are required to take the medical-aptitude test sponsored by the Association of American Medical Colleges given at announced dates in all colleges preparing students for the study of medicine. The rating in this test will be considered in determining the fitness of the applicant.

## 4. Residence

Preference is given to residents of West Virginia. For the past several years the resident applicants have been so numerous that there have been no places available for non-residents.

## 5. Personal Attributes

Careful consideration is given to those personal qualifications which have a bearing upon the fitness of the applicant for the study and practice of medicine. Students must be at least 18 years of age at the time of entrance to the Medical School. Persons who have been out of college for some years, or who are several years older than the average applicant, are admitted only when they show unmistakable evidence of superior ability and training.

## 6. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Entrance considers such readmission justified.

## 7. How to Apply for Admission

Applications for admission must be made upon blanks which may be obtained from the Dean's office upon request. No application will be con-

sidered until the Dean's office has received a complete, official transcript of all high-school and college work, including a statement of honorable dismissal. Such records should include a list of the courses in progress at the time of application. Work subsequently completed should be reported at the end of each semester or term.

It is the responsibility of the applicants (except those in residence at West Virginia University) to have all the above records forwarded to the Dean of the Medical School. After certificates have been considered by the Committee on Entrance and the credits recorded, the certificates become the property of the University and are filed permanently in the Registrar's office.

#### **8. When to Apply for Admission**

Application should be made several months before the opening date of the Medical School and may be made as much as a year in advance. Applications will be considered until the class is filled.

#### **9. Date of Notification of Applicants**

No definite dates can be set for notification of applicants about action by the Entrance Committee. Applications will be considered as promptly as possible and the Committee will inform applicants of its action whether favorable or unfavorable.

#### **10. Advance Deposit Fee**

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first term. If this fee is not received within the time designated, the place will be considered open to other applicants. Checks should be made payable to West Virginia University. If the applicant fails to enter the School of Medicine, this deposit is forfeited. The deposit paid by students who are under the G. I. Bill of Rights will be refunded after the full tuition has been paid.

### **REGISTRATION**

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the day set apart for registration at the beginning of each term, as announced in the calendar on page 3 of this Bulletin.

No student will be permitted to register in the School of Medicine after the first week of classes.

#### **Departure from Scheduled Work**

Students must register for all the prescribed courses for each term, except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## FEES

All fees are due and payable at the office of the Comptroller on the day of registration<sup>1</sup>. Students registering in the School of Medicine pay the following:

### Advance Deposit Fee

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list of registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first term. If the applicant fails to enter the School of Medicine, this deposit fee is forfeited by the applicant.

### Tuition and Other Fees

	Residents <sup>2</sup>	Non-Residents <sup>3</sup>
Full-time students <sup>2</sup> (per semester) Tuition .....	\$ 87.00	\$ 162.00
University Fees .....	40.00	40.00
<b>Total</b> .....	<b>\$ 127.00</b>	<b>\$ 202.00</b>
Part-time students (per semester hour) <sup>2</sup> .....	8.00	12.50

### SPECIAL FEES

Late registration <sup>4</sup> .....	\$ 2.00
Diploma fee <sup>5</sup> .....	10.00
Student's record fee <sup>6</sup> .....	1.00
Breakage deposit .....	10.00

### REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University:

	Amount of Refund
During the first and second weeks .....	All fees less \$2.50
During the third and fourth weeks .....	80% of fees
During the fifth and sixth weeks .....	60% of fees
During the seventh and eighth weeks .....	40% of fees
Beginning with ninth week .....	No refunds allowed

<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the Registrar shall notify their instructors that their class cards are to be withdrawn.

<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during a term. A part-time student is one who is registered for fewer than 10 semester hours per term.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicile in this State, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>4</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 3.

<sup>5</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>6</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

## STANDARDS OF SCHOLARSHIP

### Grading and Honor Points

- A—excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above the average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—condition<sup>1</sup>
- F—failure
- FIW—failure because of irregular withdrawal
- I—incomplete<sup>2</sup>
- W—all withdrawals prior to the end of the second week following the date set for mid-semester reports
- WP—withdrew passing after the end of the second week following the date set for mid-semester reports
- WF—withdrew failing after the end of the second week following the date set for mid-semester reports

The quality of a student's work shall be expressed in honor points, which are based only on grades earned in West Virginia University. All courses taken in this institution which are offered toward credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of 1 honor point per credit-hour to be eligible for graduation. For credit toward graduation, grades carry honor-point values as follows: A-3; B-2; C-1; D-0.

### Removal of Conditions

Examinations for the removal of conditions incurred during the first semester will be held during the week following Easter vacation. Examinations for conditions incurred during the second semester of the first year will be held during the first day of registration in September, in order that eligibility of students to enter the second year may be determined.

Examinations for the removal of conditions incurred during the second semester of the second year will be held at dates determined by agreement between the instructor concerned and the Scholarship Committee.

Before these dates, students who wish to take the examinations should make application to the professor concerned.

### Promotions and Suspensions

Any student who fails to make passing marks in courses amounting to at least one-half of the total number of hours regularly scheduled for any semester is suspended indefinitely.

No student will be permitted to take any work of the second year until all work of the first semester of the first year has been successfully completed.

<sup>1</sup>A mark of "E" not removed within the following term becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a "C" shall be recorded for the removal of a condition.

<sup>2</sup>If a grade of "I" is not removed within the following term by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

No student who has aggregate failures for the second semester of the first year of as much as 5 hours will be allowed to take any work of the second year until such deficiency is removed.

A student who during any two consecutive semesters does not make a grade of C or higher in at least half the scheduled credit hours may not register for the next semester except by special permission of the Scholarship Committee.

### **Withdrawals**

A student who wishes to withdraw during the term should do so in regular manner. Consult the Dean's office for the steps which must be taken.

## **REQUIREMENTS FOR DEGREES**

The School of Medicine gives no degrees in medicine, except in cooperation with the Medical College of Virginia as noted on page 8, inasmuch as only the first two years of medicine are given. It, however, cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree, upon the completion of the two years of medical work, to those students who comply with certain requirements of the College of Arts and Sciences.

## **PRE-MEDICAL CURRICULA**

During the war emergency, pre-medical education was considerably curtailed by governmental regulations and the general unrest. It is now the purpose to reestablish this work as rapidly as possible, according to the plan which medical schools have found adequate. Pre-medical students are urged to avail themselves in full measure of this training.

In keeping with the need for good pre-medical training, West Virginia University, through its pre-medical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia University to give special pre-medical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude in choice of electives in other departments, so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Upon the completion of the four-year pre-medical curriculum, students receive the A. B. degree in the College of Arts and Sciences. Students who enter the School of Medicine after the third year receive the A. B. degree at the end of the first year of medicine.

Another pre-medical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B. S. degree in pharmacy. For information concerning this course, inquiries should be addressed to the Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.

## THE DAY-AND-HOUR SCHEDULE

### First Year—First Semester

	8	9	10	11	12	1	2	3	4	5
M	Biochemistry						Hist.	Anatomy		
T	Histology						Anatomy			
W	Biochemistry						Anatomy			
Th	Histology			Biochem.			Anatomy			
F	Biochemistry						Hist.	Anatomy		
S										

### First Year—Second Semester

	8	9	10	11	12	1	2	3	4	5
M	Bact.	Neuro-Anatomy					Anatomy			
T	Embry.	Physiol.	Bacteriology				Physiology			
W	Bact.	N-anat.	Bacteriology				Anatomy			
Th	Embry.	Physiol.	Bacteriology				Anatomy			
F	Neuro-Anatomy		Bacteriology				Embryology			
S										

## THE DAY-AND-HOUR SCHEDULE

### Second Year—First Semester

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Hygiene	Physiol.	Path.			Pathology			
T	Pharm.	Psychob.	Physiol.	Path.			Physiology			
W	Medicine		Physiol.				Pathology			
Th	Pharm.	Biostat.	Physiol.	Path.			Physiology			
F		Hygiene	Physiol.	Path.			Pathology			
S										

### Second Year—Second Semester, First Half

	8	9	10	11	12	1	2	3	4	5
M	Med.	P. Diag.	H. Med.	Obstet.			Pharmacology			
T		A. Anat.	Pharm.	Surgery			Applied Anatomy			
W	Med.	P. Diag.	Clinical Pathology				Pharmacology			
Th		A. Anat.	Pharm.	Surgery			Clinical Pathology			
F	Phys. Diagnosis		Pharm.	Obstet.			Applied Anatomy			
S										

### Second Year—Second Semester, Second Half

	8	9	10	11	12	1	2	3	4	5
M	Med. or Surgery		Obstet.	Cl. Path.			Pathology			
T	Surgery or Med.		Pharm.	Surgery			Clinical Pathology			
W	Med.	P. Diag.	Obstet.	Cl. Path.			Pharmacology			
Th	Med.	P. Diag.	Pharm.	Surgery			Pathology			
F	Phy. Diagnosis		Pharm.	P. Diag.			Clinical Pathology			
S										

## THE SCHEDULE OF COURSES FOR 1946-47

	Hrs. per week			Hrs. per semester			Semester Hours, Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total	

## First Year—First Semester

Gross Anatomy 201.....	2	11	13	34	204	221	7
Histology 211.....	2	7	9	34	119	153	5
Biochemistry 231.....	4	9	13	68	153	221	6

## First Year—Second Semester

Gross Anatomy 202.....	1	8	9	17	136	153	4
Neuro-Anatomy 203.....	2	4	6	34	68	102	3
Embryology 212.....	2	3	5	34	51	85	3
Medical Bacteriology 221.....	2	8	10	34	136	170	5
Physiology 241.....	2	3	5	34	51	85	3

## Second Year—First Semester

Physiology 242.....	5	6	11	85	102	187	7
Gen. and Tumor Pathology 251.....	4	9	13	68	153	221	7
Pharmacology 261.....	1	0	1	17	0	17	1
Pharmacology 262.....	2	0	2	34	0	34	2
Hygiene 222.....	2	0	2	34	0	34	2
Introductory Medicine 272.....	0	2	2	0	34	34	*
Psychobiology 273.....	1	0	1	17	0	17	1
Biostatistics 274.....	1	0	1	17	0	17	1

## Second Year—Second Semester, First Half

Applied Anatomy 204.....	2	6	8	17	51	68	2**
Clinical Pathology 254.....	1	4	5	8	34	42	***
Pharmacology 263.....	3	6	9	25	51	76	***
Obstetrics 291.....	2	0	2	17	0	17	***
History of Medicine 275.....	1	0	1	8	0	8	0
Physical Diagnosis 271.....	2	2	4	17	17	34	***
Introductory Medicine 272.....	2	0	2	17	0	17	***
Surgery 281.....	2	0	2	17	0	17	***

## Second Year—Second Semester, Second Half

Special Pathology 252.....	1	5	6	8	42	51	2
Clinical Pathology 254.....	2	6	8	17	51	68	3
Pharmacology 263.....	3	3	6	25	26	51	4
Obstetrics 291.....	2	0	2	17	0	17	2
Physical Diagnosis 271.....	3	2	5	25	17	42	3
Introductory Medicine 272.....	2	2	4	17	17	34	3
Surgery 281.....	2	2	4	17	17	34	2

\*Course continues throughout the year.

\*\*Course completed at mid-semester.

\*\*\*Course continues throughout the semester.



## THE COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 1 to 99—courses primarily for freshmen and sophomores.

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester.

II—a course offered during the second semester.

I, II—a semester course offered each semester.

Yr.—a continuous course extending through two semesters.

Hrs.—Number of semester hours credit per course.

NOTE—Courses marked “1” are required of first-year students; those marked “2” are required of second-year students.

In addition to the required courses there are listed some elective courses for the benefit of other University students who may need them. They are given only when, in the opinion of the department concerned and of the Dean, it is considered advisable. If there should arise a demand for any of these courses, the Medical School will try to meet the need, but the schedule will be contingent upon the extent to which staff members are occupied with the required medical courses.

### Gross Anatomy and Neuro-anatomy

Professor CHANDLER; Associate Professor Low; Assistant Professor WILLIAMS

- 201.<sup>1</sup> **Gross Anatomy.** I. 7 Hrs. Lecture, 2 hours per week; laboratory, 11 hours.
- 202.<sup>1</sup> **Gross Anatomy.** II. 4 Hrs. Continuation of Anatomy 201. Lecture, 1 hour per week; laboratory, 8 hours.
- 203.<sup>1</sup> **Neuro-anatomy.** II. 3 Hrs. Lecture, 2 hours per week; laboratory, 4 hours.
- 204.<sup>2</sup> **Applied Anatomy.** II. 2 Hrs. Lecture, 2 hours per week; laboratory, 6 hours during first half of semester.
- 206. **Anatomy of the Sympathetic Nervous System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.
- 207. **Applied Anatomy of the Pelvis and Perineum.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.
- 301. **Advanced Anatomy.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Histology and Embryology

Professor DODDS; Assistant Professor WILLIAMS

- 211.<sup>1</sup> **Histology.** I. 5 Hrs. Lecture, 2 hours per week; laboratory, 7 hours.
- 212.<sup>1</sup> **Embryology.** II. 3 Hrs. Lecture, 2 hours per week; laboratory, 3 hours.

216. **The Histology and Development of the Skeletal System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature.
217. **Advanced Embryology.** I or II. 2-5 Hrs. Topics to be chosen to meet special needs of students. Hours to be arranged. Open to properly qualified students.
311. **Research in Microscopic or Developmental Anatomy.** I or II or Yr. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### **Bacteriology and Public Hygiene**

Professor SPRAY; Instructors HENN and LEWIS\*

121. **Pathogenic Bacteriology.** I. 5 Hrs. Required of students in pharmacy and medical technology. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours.
- 221.<sup>1</sup> **Medical Bacteriology.** II. 5 Hrs. Lecture, 2 hours per week; laboratory, 8 hours.
- 222.<sup>2</sup> **Public Hygiene.** II. 2 Hrs. Lecture, 2 hours per week.
226. **Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students.
321. **Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 221 or equivalent.

### **Biochemistry**

Professor MACLACHLAN; Assistant GOVER

- 139 or 239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of plants and animals with special reference to man. PR: Inorganic and organic chemistry. Quantitative analysis desirable. Lecture, 3 hours per week; laboratory, 5 hours. Graduate students required to do one hour additional work per week for 4 hours' credit.
- 231.<sup>1</sup> **Biochemistry.** I. 6 Hrs. Lecture, 4 hours per week; laboratory, 9 hours.
236. **Advanced Biochemistry.** I or II. 2-5 Hrs. With special emphasis on biochemical methods. Hours to be arranged. Open to properly qualified students.
331. **Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students.

### **Physiology**

Professor VAN LIERE; Associate Professor NORTHUP;  
Assistant Professor STICKNEY

141. **Elementary Physiology.** II. 4 Hrs. For students in Pharmacy and Medical Technology. Lecture, 3 hours per week; laboratory, 3 hours.
- 242.<sup>1</sup> **Physiology.** II. 3 Hrs. Physiology of muscle and nervous system. Lecture, 2 hours per week; laboratory, 3 hours.
- 243.<sup>2</sup> **Physiology.** I. 7 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours.
246. **Seminar in Physiology.** Yr. No credit.

\*On leave of absence for military service.

247. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged.
248. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged.
249. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged.
341. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the master of science degree.

### Pathology

Professor FENTON; Associate Professor DEANGELIS

151. **Clinical Laboratory Diagnostic Methods.** II. 4 Hrs. Study of blood, exudates, transudates, gastric contents, urine, etc. Lecture, 2 hours per week; laboratory, 6 hours. Required of students in Medical Technology.
- 251.<sup>2</sup> **General and Tumor Pathology.** I. 7 Hrs. Includes both gross and microscopic studies with demonstrations. Lecture, 4 hours per week; laboratory, 9 hours.
- 252.<sup>2</sup> **Special Pathology.** II. 2 Hrs. A study of special diseases with gross and microscopic specimens from selected autopsies. Lecture, 1 hour per week; laboratory, 5 hours during second half of semester.
- 254.<sup>2</sup> **Clinical Pathology.** II. 3 Hrs. A laboratory course in blood, gastric contents, urine, etc., and their pathological and clinical significance. Lecture, 1 hour per week; laboratory, 4 hours during first half of semester; lecture, 2 hours per week; laboratory, 6 hours during second half of semester.
256. **Advanced Pathology.** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 251.
351. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Pharmacology

Associate Professor MARSH; Instructor ROSS; Lecturers TUCKER and HAYMAN

- 261.<sup>2</sup> **Introductory Pharmacology.** I. 1 Hr. Lecture, 1 hour per week. Sources and types of drugs; incompatibilities; weights and measures; narcotic laws; and prescription writing. Given by Dean Hayman.
- 262.<sup>2</sup> **Pharmacodynamics.** I. 2 Hrs. Lecture, 2 hours per week.
- 263.<sup>2</sup> **Medical Pharmacology.** II. 4 Hrs. Lecture, 3 hours per week throughout semester; laboratory, 6 hours, first half of semester; 3 hours, second half.
266. **Biochemorphology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 262, or Chemistry 238 or 277.
267. **Bioassay and Comparative Pharmacology.** I or II. 3 Hrs. Lecture and demonstrations, 2 hours per week; laboratory, 3 hours. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 262; or Chemistry 238 or 277 and Histology 211; or Pharmacy 110.
268. **Advanced Pharmacology.** I or II. 2-5 Hrs. Hours to be arranged. Rational investigation of new drugs.
269. **Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week; laboratory, 3 hours. PR: Physiology 242.

361. **Research in Pharmacology.** I or II. 2-5 Hrs. Hours to be arranged. PR: Graduate status in physiology, chemistry, or agriculture.

### Medicine

Associate Profesors LAWLESS and DEANGELIS; Assistant Professors MAXWELL, WHITTLESEY, SALKIN, and SLEETH; Instructors JOHNSON and STARKEY

- 271.<sup>2</sup> **Physical Diagnosis.** II. 3 Hrs. Lecture, 2 hours per week, laboratory, 2 hours during first half of semester; lecture, 3 hours per week, practical work with patients, 2 hours during second half. Hospital clerkship at Hopemont Sanitarium, 10 days.
- 272.<sup>2</sup> **Introductory Medicine.** Yr. 3 Hrs. Medical clinic—demonstration of clinical cases, 2 hours per week during first semester; lecture, 2 hours per week during second semester; demonstration of clinical cases, 2 hours per week during second half of semester. Hospital clerkship at Hopemont Sanitarium, 10 days.
- 273.<sup>2</sup> **Psychobiology.** I. 1 Hr. Introduction to the study of human personality, normal and abnormal. Lecture, 1 hour per week.
- 274.<sup>2</sup> **Biostatistics.** I. 1 Hr. Planned to aid in the understanding of the statistical methods commonly used in medical and biological work, and in the evaluation of experimental data in these fields. Lecture, 1 hour per week.

### History of Medicine

Professor CHANDLER

- 275.<sup>2</sup> II. No credit. A brief history of the development of the science and art of medicine. Lecture, 1 hour per week during first half of semester.

### Introductory Surgery

Associate Professor PRIDE

- 281.<sup>2</sup> **Principles of Surgery.** II. 2 Hrs. Lecture, 2 hours per week during first half of semester; lecture, 2 hours per week during second half of semester, demonstrations of clinical cases and operative technique, 2 hours.

### Obstetrics

Professor VAN LIERE

- 291.<sup>2</sup> **Obstetrics.** I. 2 Hrs. An introductory course in obstetrics. Lecture, 2 hours per week.

## THE LIST OF STUDENTS, 1945-46

### First-year Students (entered Sept. 24, 1945)

ANDERSON, JOHN POWELL	V-12	Lynchburg, Va.
BLUM, SIDNEY	ASTP	Baltimore, Md.
B. S., Maryland State Teachers College, 1939.		
BOS, JACOB KEMPE		Buckhannon
A. B., University of Southern California.		
BOUTWELL, WILLIAM STAPLES	V-12	Williamson
A. B., Emory and Henry College, 1945.		
DAVIS, PRESTON CALDWELL		Morgantown
DELORENZO, ANGELINE		Fairmont
DOBOY, JOSEPH GEZA		Morgantown
B. S., Juanita College, 1937.		
ESKEY, CHESTER WHITE	V-12	Wheeling
FRANKLIN, MARVIN	V-12	Wheeling
GOLDFARB, MARTIN SAMUEL		Charleston
GOVER, JANIS		Charleston
GUIDO, ANGELINA		Morgantown
HENDRICK, JAMES WESLEY	ASTP	Keithville, La.
HERBERT, EARLE AVERY	ASTP	Forty Fort, Pa.
HESS, HELEN HOPE		Morgantown
HOYLMAN, GEORGE		Sharples
B. S., West Virginia Wesleyan, 1936; M. S., West Virginia University, 1941.		
KAMONS, HAROLD OLIVER		Parkersburg
A. B., West Virginia University, 1945.		
KJRTZ, MORTON	ASTP	Bronx, N. Y.
MICHAEL, GUY HOBART, JR.		Parsons
MONCURE, WILLIAM BIGBIE	V-12	Radford, Va.
PELLETIER, MARTHA HYRE		Charleston
A. B., Marietta College, 1939.		
PINNEY, EDWARD LOWELL, JR.	V-12	Dixie
REINSTINE, HARRY WAMPOLE	V-12	Jacksonville, Fla.
RITCHIE, LAURELLA JUNE		Ravenswood
A. B., West Virginia University, 1945.		
SIEGEL, DONALD GABRIEL	ASTP	Chicago, Ill.
SMITH, GENE HOPE		Morgantown
A. B., West Virginia University, 1945.		
STIFF, MCHENRY LEWIS, III	V-12	Roanoke, Va.
STOUT, WALLACE CORNELIUS	ASTP	Delta, Ohio
VARCA, JULIUS	ASTP	New York City, N. Y.
WILLIAMS, DAVID HAROLD	ASTP	Cleveland, Ohio

### Second-year Students (entered Sept. 25, 1944)

BARBERIA, REGINA MARGARET		Morgantown
A. B., West Virginia University, 1943.		
CONN, LEE ROY MINOR		Blacksville
DAVIS, ALBERT JAMES, JR.	V-12	Danville, Va.
DONELL, NEVEA ILDA		Weirton
A. B., West Virginia University, 1944.		
FELDER, EDWARD ARNOLD	V-12	Norwich, Conn.
GORDON, PAUL EDWIN		Clarksburg
A. B., West Virginia University, 1945.		
GRECO, ROBERT		Everettsville
A. B., West Virginia University, 1945		
HARDMAN, THOMAS BROCK		Morgantown
A. B., West Virginia University, 1945.		
HUDNALL, LEONARD PRESTON		Pratt
B. S., West Virginia Institute of Technology, 1945.		
HULL, ERNEST QUENTIN		Charleston
A. B., West Virginia University, 1945.		
KINCAID, WILLIAM EUGENE		Parkersburg.
MCPHERSON, EWING WILLIAM	V-12	Derby, Va.
B. S., Emory and Henry College, 1944.		
MOORE, MICHAEL JUDSON		Affinity
A. B., West Virginia University, 1945.		
MORGAN, WILLIAM C, JR.	V-12	Welch
A. B., West Virginia University, 1945.		
MULLINS, DAVID WALKER		Logan
A. B., West Virginia University, 1945.		
NATTERSON, JOSEPH MORTON	V-12	Wheeling
A. B., West Virginia University, 1945.		
O'HARA, ALBERT EDWARD		Weston
B. S., West Virginia Wesleyan College, 1944.		
REYNOLDS, RAYMOND JULIUS		Charleston
A. B., West Virginia University, 1945.		
RICHARD, ROBERT EARL		Morgantown
A. B., West Virginia University, 1945.		
RODGERS, JOHN THOMAS		Wellsburg
SARRELL, WARREN GLEA	V-12	Copperhill, Tenn.
STEPHENS, RICHARD SAMUEL		Bluefield
A. B., West Virginia University, 1944.		
STOCKDALE, DONALD KARL	V-12	Morgantown
A. B., West Virginia University, 1945.		
TOWNSEND, CLARENCE VINCENT		Martinsburg
A. B., West Virginia University, 1944.		
WINGFIELD, ROBERT CLARK		Elkins
A. B., West Virginia University, 1944.		
WYSONG, ROBERT GERALD		Clarksburg
A. B., West Virginia University, 1944.		

NOTE—ASTP or V-12 following the names of students indicates that they are carrying their medical work as enlisted men in either the Army or Navy.

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## WEST VIRGINIA UNIVERSITY

### THE SCHOOL OF MEDICINE

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## THE CURRICULUM IN MEDICAL TECHNOLOGY

### General Information

The curriculum in Medical Technology leads to the degree of Bachelor of Science (Medical Technology). This curriculum prepares students to serve as technicians in hospitals, clinics, research laboratories, etc., and in offices of private physicians.

Training standards for laboratory technicians are under the general supervision of the Council on Medical Education and Hospitals of the American Medical Association, which inspects, evaluates, and approves schools. In this field, properly qualified persons, upon passing the required examinations, may be certified by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

During the first two years the student is registered in the College of Arts and Sciences and is under the supervision of the pre-medical adviser. These two years are considered as a preliminary training.

The third and fourth years include the specialized and technical training of the curriculum. Many of the courses are given by regular members of the medical faculty. During these years the student is under the jurisdiction of the School of Medicine. But these students are not to be regarded as medical students, nor can any course taken during these years be counted toward the M. D. degree.

The work of the last year is largely individual in nature, carried on in various laboratories and hospitals. The students are considered as temporary members of the laboratory staff and are subject to the usual staff regulations.

### Requirements for Admission

- (a) Admission requirements to the first year are the same as for the College of Arts and Sciences of West Virginia University, namely, 15 units of high-school work, including the subjects specified in the University catalogue.
- (b) For admission to the third year, the first two years of the curriculum outlined below must be completed, either in West Virginia University or in other institutions of recognized standing.
- (c) Only a limited number of students can be accommodated in the third and fourth years. Preference is given to residents of West Virginia. Application should be made on forms obtainable from the Medical School and presented at the office of the Dean of the School of Medicine. Applications will be considered after the scholastic records for three semesters is available.

## Requirements for the Degree

The degree, Bachelor of Science (Medical Technology), will be given upon completion of the curriculum outlined below.

### Fees

For the first two years, students pay the regular fees charged in the College of Arts and Sciences. In the last two years, while students are under the jurisdiction of the School of Medicine, there is an additional tuition fee of \$25 per semester. There is a breakage deposit of \$5 per year.

### Committee on Medical Technology

E. J. VAN LIERE (Dean of Medical School), *Chairman*.

G. S. DODDS (Chairman of Committee on Entrance and Scholarship).

C. C. FENTON (Professor of Pathology and Clinical Pathology).

DAVID SALKIN (Superintendent of Hopemont Sanitarium and Assistant Professor of Medicine, W. V. U.).

MARY J. HENN (Registered Medical Technologist and Instructor in Bacteriology).

## THE CURRICULUM

During the first two years the student is registered in the College of Arts and Sciences.

### First Year (pre-technology)

First Semester		Second Semester	
<i>Subjects</i>	<i>Hrs.</i>	<i>Subjects</i>	<i>Hrs.</i>
Inorganic chemistry .....	4	Inorganic chemistry .....	4
General zoology .....	4	General zoology .....	4
English composition .....	3	English composition .....	3
Modern foreign language .....	3	Modern foreign language .....	3
Electives .....	2	Electives .....	2
Physical education .....	1	Physical education .....	1
Military .....	1	Military .....	1

### Second Year (pre-technology)

First Semester		Second Semester	
<i>Subjects</i>	<i>Hrs.</i>	<i>Subjects</i>	<i>Hrs.</i>
Qualitative analysis .....	4	Quantitative analysis .....	3
English literature .....	3	English literature .....	3
Modern foreign language .....	3	Modern foreign language .....	3
General physics .....	4	General physics .....	4
Electives .....	2	Electives .....	2
Physical education .....	1	Physical education .....	1
Military .....	2	Military .....	2

During the third and fourth years the student is under the jurisdiction of the School of Medicine. This part of the curriculum is open only to students approved by the Committee on Medical Technology.



**Third Year**

<b>First Semester</b>		<b>Second Semester</b>	
<i>Subjects</i>	<i>Hrs.</i>	<i>Subjects</i>	<i>Hrs.</i>
Pathogenic bacteriology .....	5	Elementary medical physiology....	4
Organic chemistry .....	4	General biochemistry .....	4
Comparative anatomy .....	4	Parasitology .....	4
Electives .....	4	Clinical laboratory diagnostic methods .....	4
		Electives <sup>1</sup> .....	2 or 3

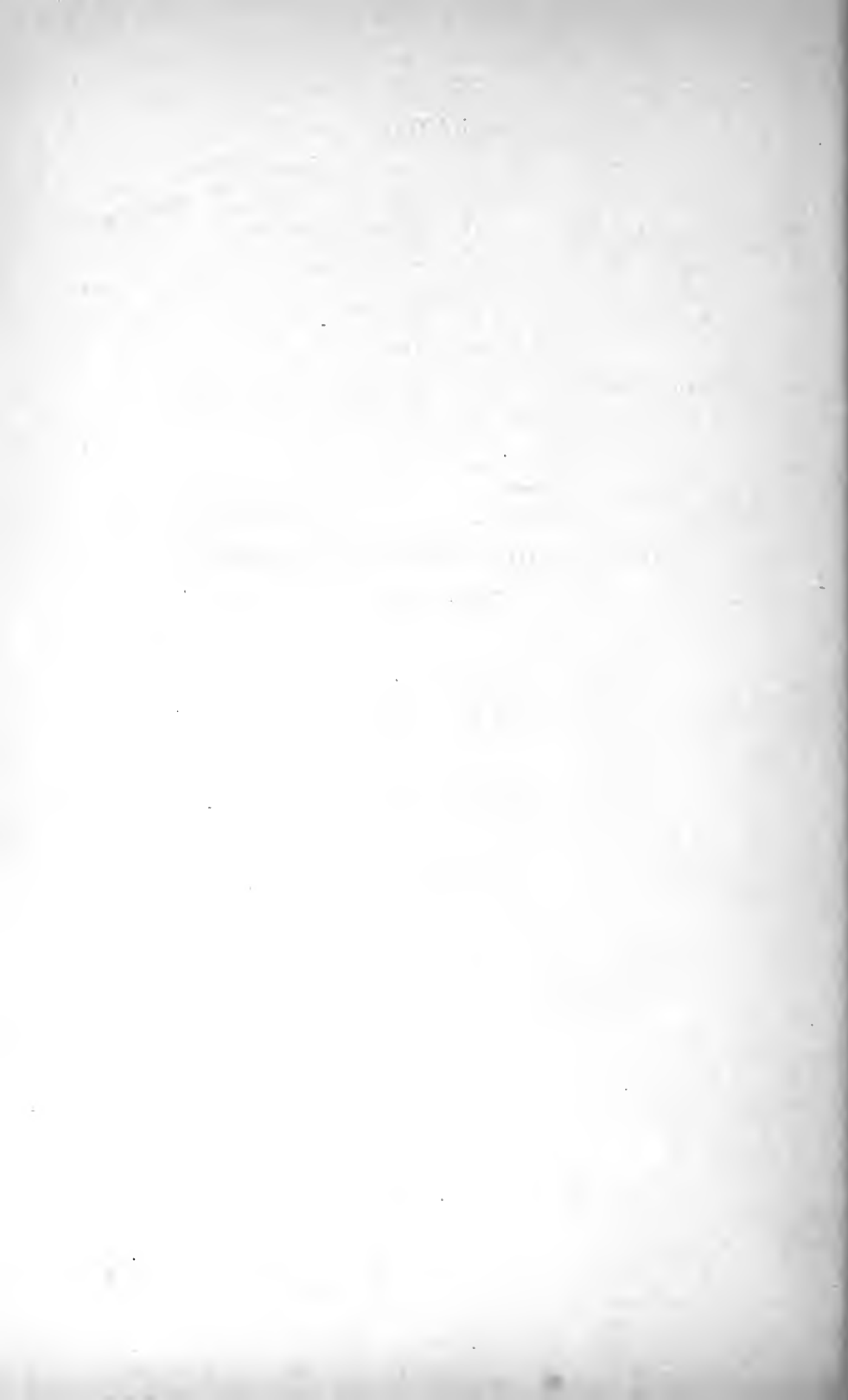
**Fourth Year<sup>2</sup>**

<b>First Semester</b>		<b>Second Semester</b>	
<i>Subjects</i>	<i>Hrs.</i>	<i>Subjects</i>	<i>Hrs.</i>
Urine analysis .....	5	Hospital assignment .....	5
Normal hematology .....	4	Applied bacteriology .....	4
Microtechnique .....	3	Special hematology .....	3
Applied serology .....	4	Metabolimetry .....	3
Applied parasitology .....	1	Electrocardiography .....	2

**STUDENTS IN MEDICAL TECHNOLOGY****Third Year**

BRAND, JEAN MARIE .....	Morgantown
HARRIS, RUTH JANE .....	Weston
LUKERT, ALMA GEORGIAN (Special Student) .....	Morgantown
NACH, LUCILLE REVA .....	Weirton
STOKES, ELEANOR JOYCE .....	Hinton
STONESTREET, BETTY JO .....	Charleston

<sup>1</sup>Electives. Two or three hours when necessary or advantageous.<sup>2</sup>Owing to the nature of the work in the fourth year, there will probably be departures from the scheduled sequence of courses.



# **West Virginia University Bulletin**

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Series 47, No. 10-III

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April 1947

## **CATALOGUE THE SCHOOL OF MEDICINE THE 1946-47 SESSION**

**The Curriculum in Medicine  
The Curriculum in Medical Technology**



## **ANNOUNCEMENTS OF THE 1947-48 SESSION**

**MORGANTOWN, WEST VIRGINIA**  
Published by the University

Entered as second-class matter, July 15, 1929, at the post office at  
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Issued Monthly

# Year 1947

JANUARY							FEBRUARY							MARCH							APRIL										
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
				1	2	3	4						1							1						1	2	3	4	5	
5	6	7	8	9	10	11		2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12			
12	13	14	15	16	17	18		9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19			
19	20	21	22	23	24	25		16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26			
26	27	28	29	30	31		23	24	25	26	27	28		30	31	23	24	25	26	27	28	29	27	28	29	30					
MAY							JUNE							JULY							AUGUST										
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
					1	2	3	1	2	3	4	5	6	7						1	2	3	4	5				1	2		
4	5	6	7	8	9	10		8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9			
11	12	13	14	15	16	17		15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16			
18	19	20	21	22	23	24		22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23			
25	26	27	28	29	30	31		29	30						27	28	29	30	31			24	25	26	27	28	29	30			
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER										
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
			1	2	3	4	5	6					1							1						1	2	3	4	5	6
7	8	9	10	11	12	13			5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13		
14	15	16	17	18	19	20		12	13	14	15	16	17	18		9	10	11	12	13	14	15	14	15	16	17	18	19	20		
21	22	23	24	25	26	27		19	20	21	22	23	24	25		16	17	18	19	20	21	22	21	22	23	24	25	26	27		
28	29	30						26	27	28	29	30	31		23	24	25	26	27	28	29	30	28	29	30	31					

# Year 1948

JANUARY							FEBRUARY							MARCH							APRIL									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
					1	2	3	1	2	3	4	5	6	7		1	2	3	4	5	6					1	2	3		
4	5	6	7	8	9	10	8	9	10	11	12	13	14	15	7	8	9	10	11	12	13	4	5	6	7	8	9	10		
11	12	13	14	15	16	17	15	16	17	18	19	20	21	22	14	15	16	17	18	19	20	11	12	13	14	15	16	17		
18	19	20	21	22	23	24	22	23	24	25	26	27	28	29	21	22	23	24	25	26	27	18	19	20	21	22	23	24		
25	26	27	28	29	30	31	29								28	29	30	31				25	26	27	28	29	30			
MAY							JUNE							JULY							AUGUST									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
						1			1	2	3	4	5						1	2	3	1	2	3	4	5	6	7		
2	3	4	5	6	7	8	6	7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14		
9	10	11	12	13	14	15	13	14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21		
16	17	18	19	20	21	22	20	21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28		
23	24	25	26	27	28	29	27	28	29	30					25	26	27	28	29	30	31	29	30	31						
30	31																													
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
					1	2						1	2				1	2	3	4	5	6					1	2	3	4
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	12		
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	19		
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26		
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31				
							31																							

The days on which the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type.

# The University Calendar\*

1947

May 31, Saturday-----Alumni Day  
June 1, Sunday-----Baccalaureate Exercises  
June 2, Monday-----Commencement Day  
June 4, 5, Wednesday and Thursday-----Registration for Summer Session  
June 6, Friday-----First recitations, Summer Session  
July 4, Friday, to July 6, Sunday, inclusive-----Independence Day recess  
July 15, Tuesday-----Close of first term, Summer Session  
July 16, Wednesday-----Registration for second term, Summer Session  
July 17, Thursday-----First recitations, second term, Summer Session  
August 22, Friday-----Close of Summer Session  
September 11, Thursday, to September 17, Wednesday, inclusive  
Freshman Week Program  
September 13, Saturday-----Registration of Freshmen  
September 15, 16, and 17, Monday, Tuesday, and Wednesday  
General registration for first semester  
September 18, Thursday-----First recitations, first semester  
October 14, Tuesday-----Meeting of University Senate  
November 10, Monday-----Midsemester reports due  
November 26, Wednesday, to November 30, Sunday, inclusive  
Thanksgiving recess  
December 20, Saturday, to January 4, Sunday, inclusive-----Christmas recess

1948

January 17, Saturday, to January 24, Saturday, inclusive  
Final examinations for first semester  
January 27 and 28, Tuesday and Wednesday,-----Registration for second semester  
January 29, Thursday-----First recitations, second semester  
February 10, Tuesday-----Meeting of University Senate  
March 22, Monday-----Midsemester reports due  
March 25, Thursday, to March 31, Wednesday, inclusive-----Easter recess  
May 11, Tuesday-----Meeting of University Senate  
May 21, Friday, to May 28, Friday, inclusive  
Final examinations for second semester  
May 29, Saturday-----Alumni Day  
May 30, Sunday-----Baccalaureate Exercises  
May 31, Monday-----Commencement Day

\*Subject to change.

# West Virginia University

Morgantown

Established February 7, 1867

## The West Virginia Board of Control\*

JOSEPH Z. TERRELL, PRESIDENT, *Clarksburg*

DELL WHITE, SECRETARY, *Madison*

L. STEELE TROTTER, TREASURER, *Charleston*

The West Virginia Board of Control has the direction of the financial and business affairs of the state educational institutions.

## The Board of Governors\*

RAYMOND E. SALVATI, PRESIDENT, *Huntington*

A. C. SPURR, VICE-PRESIDENT, *Fairmont*

MRS. GEORGE D. HILL, *Camden-on-Gauley*

WILLIAM G. THOMPSON, *Montgomery*

THOMAS L. HARRIS, M. D., *Parkersburg*

E. G. OTEY, *Bluefield*

K. DOUGLAS BOWERS, *Beckley*

CHARLES T. NEFF, JR., SECRETARY, *Morgantown*

The Board of Governors has charge of the educational and administrative affairs of the University.

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\*In accordance with the law passed by the 1947 State Legislature and signed by Governor Clarence W. Meadows, the authority of the West Virginia Board of Control is terminated on June 30, 1947. On the same day the University Board of Governors becomes a nine-member body with staggered terms of service by its several members and with full authority over the educational, administrative, and financial affairs of the University.

PRESS OF  
MORGANTOWN PRINTING AND BINDING COMPANY  
MORGANTOWN, WEST VIRGINIA



## ADMINISTRATION

- IRVIN STEWAERT, LL.B., A.B., A.M., PH.D., LL.D., *President of the University*  
CHARLES THOMPSON NEPT, JR., A.B., *Vice-president of the University*  
EDWARD JERALD VAN LIERE, *Dean and Professor of Physiology*  
B.A., M.S., M.D., PH.D., F.A.C.P.  
JOHN NATHAN SIMPSON, *Dean Emeritus*  
A.B., M.D., F.A.C.P.

## THE FACULTY

### Professors

- EDWARD JERALD VAN LIERE, *Professor of Physiology and Dean*  
B.A., M.S., University of Wisconsin, 1915, 1916; M.D., Harvard University, 1920; PH.D., University of Chicago, 1927; F.A.C.P.  
GIDEON STANTHOPE DODDS, *Professor of Histology and Embryology, and Chairman of Committee on Entrance and Scholarship*  
B.A., M.A., University of Colorado, 1904, 1905; PH.D., University of Pennsylvania, 1910.  
CLEMENT COLEMAN FENTON,<sup>2</sup> *Professor of Pathology and Clinical Pathology*  
A.B., Columbia University, 1915; M.S., West Virginia University, 1922; M.D., Cornell University, 1925; F.A.C.P.  
ROEB SPAULDING SPRAY,<sup>1</sup> *Professor of Bacteriology and Public Hygiene*  
B.S., Purdue University, 1914; M.S., Pennsylvania State College, 1917; PH.D., University of Chicago, 1923.  
SIMON B. CHANDLER, *Professor of Gross Anatomy and Neuro-anatomy*  
A.B., University of Missouri, 1922; A.M., M.D., Northwestern University, 1926, 1927.  
PERCIVAL LLOYD MACLACHLAN, *Professor of Biochemistry*  
B.A., Queens University, 1931; PH.D., University of Rochester, 1935.  
DAVID FIELDING MARSH, *Professor of Pharmacology*  
A.B., West Virginia University, 1939; M.S., Purdue University, 1940; PH.D., University of California, 1942.

### Associate Professors

- DAVID WILMARTH NORTHUP, *Associate Professor of Physiology*  
A.B., Reed College, 1930; A.M., University of Oregon, 1932; PH.D., University of Illinois, 1935.  
CECIL BENJAMIN PRIDE,<sup>1</sup> *Associate Professor of Surgery*  
A.B., Ohio Wesleyan University, 1916; B.S., West Virginia University, 1921; M.D., Western Reserve University, 1923; F.A.C.S.  
JOHN JOSEPH LAWLESS, *Associate Professor of Medicine and Director of University Health Service*  
B.S., M.A., PH.D., University of Minnesota, 1930, 1931, 1934; M.D., Rush Medical College, 1939.  
JOHN MADISON SLACK, *Associate Professor of Bacteriology and Public Hygiene*  
A.B., M.S., PH.D., University of Minnesota, 1936, 1937, 1940.  
GEORGE CLARK, *Associate Professor of Anatomy*  
B.S., University of Washington, 1936; M.S., PH.D., Northwestern University, 1937, 1939.  
CLARK KENDALL SLEETH, *Associate Professor of Medicine and Physician in University Health Service*  
A.B., B.S., West Virginia University, 1933, 1935; M.D., University of Chicago, 1938.

<sup>1</sup>Retired, January 1, 1946, as Professor Emeritus.

<sup>2</sup>Deceased May 28, 1947.

## Assistant Professors

- GEORGE RALPH MAXWELL,<sup>1</sup> *Assistant Professor of Medicine (Physical Diagnosis)*  
B.S., West Virginia University, 1921; M.D., University of Cincinnati, 1923;  
F.A.C.P.
- FREDERICK RENDELL WHITTLESEY,<sup>1</sup> *Assistant Professor of Medicine*  
A.B., Wooster College, 1921; M.D., Western Reserve University; 1925;  
F.A.C.P.
- DAVID SALKIN, *Assistant Professor of Medicine (Physical Diagnosis)*  
(*Superintendent of Hopemont Sanitarium*)  
M.D., University of Toronto, 1929; F.A.C.P.
- THOMAS WALLEY WILLIAMS, *Assistant Professor of Histology and Anatomy*  
B.S., M.S., Ph.D., *University of Pittsburgh*, 1934, 1937, 1939.
- JOHN CLIFFORD STICKNEY, *Assistant Professor of Physiology*  
B.S., Wheaton College, 1933; M.S., *University of Washington*, 1936; Ph.D.,  
*University of Minnesota*, 1940.
- FRANKLIN G. WADE, *Assistant Professor of Pathology*,  
A.B., B.S., *West Virginia University*, 1941, 1943; M.D., *Temple University*, 1944.
- JOSEPH L. KNAPP, *Assistant Professor of Psychiatry, (Superintendent of Weston State Hospital)* B.S., M.D., *University of Illinois*, 1934.

## Instructors

- CARL EDWARD JOHNSON,<sup>1</sup> *Instructor in Medicine (Physical Diagnosis)*  
A.B., B.S., *West Virginia University*, 1923, 1925; M.D., *Northwestern University*, 1928; F.A.C.P.
- ARCHIE LEMUEL STARKEY, *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopemont Sanitarium*)  
B.S., *West Virginia University*, 1924; M.D., *University of Arkansas*, 1937.
- CHARLES ALBERT ROSS, *Instructor in Pharmacology*  
B.S., *Purdue University*, 1940; M.S., *University of Kentucky*, 1942.
- JOHN MCWORTER EDMISTON, *Instructor in Pathology (part-time)*  
B.S., *West Virginia Wesleyan*, 1941; B. S., *West Virginia University*, 1943; M.D.,  
*Temple University*, 1944.
- ISABELLE T. GADZIKOWSKI, M.D., *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopemont Sanitarium*)
- HAROLD HENRY TEITELBAUM, M.D., *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopemont Sanitarium*).

## Assistants

- JANIS GOVER, *Assistant in Biochemistry*  
A.B., *West Virginia University*, 1945.
- HELEN HOPE HESS, *Assistant in Anatomy*  
A.B., *West Virginia University*, 1946.
- KATHRYN BELLE MCGEE, *Assistant in Biochemistry*  
B.S., *Madison College*, 1946.
- BENJAMIN JAMES WILSON, *Assistant in Bacteriology*  
A.B., *West Virginia University*, 1943.

<sup>1</sup>Part-time. In private practice.



### Lecturers

- ELDON BRYANT TUCKER,<sup>1</sup> *Lecturer in Pharmacology (Anesthesiology)*  
 B.S., West Virginia University, 1919; M.D., University of Cincinnati, 1921.  
 JOSEPH LESTER HAYMAN, *Lecturer on Prescription Writing and on food, drug, and  
 narcotic laws relating to physicians*  
 (Dean and Professor of Pharmacognosy, College of Pharmacy)  
 Ph.C., M.S., University of Michigan, 1919, 1925.

### Technicians

- DAVID SAMUEL BARRICKMAN, *Technician in Anatomy and Histology*  
 B.S., M.S., West Virginia University, 1932, 1935.  
 ERNEST JOHNSON, *Technician in Bacteriology*  
 LELA VIRGINIA STUMP, *Technician in Pathology*  
 M.T., Jefferson Medical College, 1945.  
 EDNA WILSON BROOKS, *Technician in Pathology*

### Clerical

- PAULINE MACISAAC, *Secretary to the Dean*  
 VIRGINIA L. STUMP, *Secretary of College and Record Clerk*

## THE UNIVERSITY HEALTH SERVICE

### Physicians

- JOHN JOSEPH LAWLESS, *Director of University Health Service and Associate Professor  
 of Medicine*  
 B.S., M.A., Ph.D., University of Minnesota, 1930, 1931, 1934; M.D., Rush  
 Medical College, 1939.  
 SAMUEL JOHN MORRIS, *Physician and Medical Adviser to the Department of Athletics*  
 M.D., University of Maryland, 1912.  
 CLARK KENDALL SLEETH, *Physician and Associate Professor of Medicine*  
 A.B., B.S., West Virginia University, 1932, 1935; M.D., University of Chicago,  
 1938.  
 OLAN TERRILL COFFIELD, *Physician in University Health Service*  
 A.B., B.S., West Virginia University, 1940, 1942; M.D., University of Louisville,  
 1943.

### Nurses

- ETHEL FEATHER ELLIS, *Nurse in the University Health Service*  
 BETTY EMERSON, R.N., *Nurse in the University Health Service*  
 PEARL BENVENUTO, R.N., *Nurse in the University Health Service*  
 MARY STENGER, R.N., *Nurse in the University Health Service*  
 Other nurses as needed for patients in Infirmary

### Technicians

- FABRY LIVINGSTON HAWK, *Chief Technician in the University Health Service*  
 Registered Medical Technologist.  
 AILON BUFORD LINGAR,<sup>2</sup> *Technician in the University Health Service*  
 A.B., West Virginia University, 1942.

<sup>1</sup>Part-time. In private practice.

<sup>2</sup>On leave of absence for military service.

### Clerical

HELEN CLARISSA O'NEILL, *Secretary in the University Health Service*

MARGARET BRODERICK, *Clerk in the University Health Service*

B.S., West Virginia University, 1946.

### THE STANDING COMMITTEES

EXECUTIVE: E. J. VAN LIERE (*chairman*), G. S. DODDS, F. R. WHITTLESEY, and C. B. PRIDE.

ADMISSIONS AND SCHOLARSHIP: G. S. DODDS (*chairman*), S. B. CHANDLER, C. C. FENTON, P. L. MACLACHLAN, and C. K. SLEETH.

LIBRARY: S. B. CHANDLER (*chairman*), J. C. STICKNEY, P. L. MACLACHLAN, C. K. SLEETH, and J. M. SLACK.

RESEARCH: E. J. VAN LIERE (*chairman*), D. W. NORTHUP, D. F. MARSH, and P. L. MACLACHLAN.

SEMINARS: G. S. DODDS (*chairman*), J. C. STICKNEY, E. J. VAN LIERE, C. K. SLEETH, and J. M. SLACK.

CLINICAL AND SPECIAL FACILITIES: J. J. LAWLESS (*chairman*), C. B. PRIDE, C. C. FENTON, G. R. MAXWELL, F. R. WHITTLESEY, and C. K. SLEETH.

CURRICULUM: C. K. SLEETH (*chairman*), P. L. MACLACHLAN, E. J. VAN LIERE, D. F. MARSH, and G. S. DODDS.

STUDENT LOANS AND SCHOLARSHIPS: E. J. VAN LIERE (*chairman*), G. S. DODDS, P. L. MACLACHLAN, and J. C. STICKNEY.

## GENERAL INFORMATION

### Instruction in Medicine

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### Agreement With Medical College of Virginia

Only the first two years of medicine are given at West Virginia University. There has been made an agreement with the Medical College of Virginia at Richmond for the transfer of as many as twenty students, residents of West Virginia, who have completed the first two years at West Virginia University. At the Medical College of Virginia these students pay the same tuition as paid by the residents of Virginia. Upon graduation, diplomas are issued jointly by the two schools. Other students in the class may, as in the past, transfer to various medical schools for the completion of their work.

### Buildings and Equipment

#### THE MEDICAL BUILDING, LABORATORIES, AND CLASSROOMS

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the Dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in separate buildings.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center: a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

## LIBRARY

The Medical Library is not organized as a separate unit but is housed in the University Library Building, where publications of prime importance to the students and Faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building which is adjacent to the Library Building. Additional current issues of essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 13,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with the pre-clinical fields for the most part but comprising also the better representative works in internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and the history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, the Library of Congress, or other libraries. Complete sets of various abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library, and a member of the Staff also represents the School of Medicine on the general Library Committee of the University.

## Living Accommodations

The University maintains three large dormitories, one for men and two for women. Cost of room and board in all dormitories ranges from \$414 to \$477 per academic year of 9 months. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Director of Residences and Commons, West Virginia University, Morgantown.

Medical students, in the main, must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For further information concerning houses on the approved list, men should address the office of Mr. H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University.

## **Cost of a Year's Work**

Textbooks and supplies will cost about \$50 to \$75 per academic year. Registration fees for residents are \$254; for non-residents, \$404 per academic year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month session for medical students in residence will range from \$750 to \$1,000, exclusive of traveling expenses. The School of Medicine furnishes microscopes for students without charge.

## **LOANS FOR MEDICAL STUDENTS**

It frequently happens that students otherwise well qualified for the study of medicine are short of funds to defray the necessary expenses. For the assistance of such students there are available certain loans, some specifically for medical students, others available to students of all colleges in the University. For information about loans, inquiries should be made to Mr. Harry E. Stone, Secretary, Committee on Prizes, Scholarships, and Loan Funds, West Virginia University, Morgantown.

## **The University Health Service**

The University Health Service, organized as a division in the School of Medicine, provides medical service to all students in the University and supervises health conditions on the campus. Each regularly enrolled University student pays a fee which provides for medical consultation and advice from the University physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. The student's medical fee includes an insurance charge to provide hospitalization for acute illness not to exceed 30 days in a school year. Room charges up to \$5 daily and operating room fees are provided for, but professional fees arising out of such hospitalization are not included. All students receive a complete physical examination, including blood tests, urinalysis, and chest X-ray, during their first semester in the University. In addition the Health Service provides special examinations to students, to University food handlers, and to others, as may be required for University purposes. The University Pharmacy, operated by the College of Pharmacy, supplies prescribed medication at nominal charges.

The staff of the Health Service includes four physicians, three nurses, and two laboratory technicians. The Departments of Pathology and Bacteriology cooperate in various diagnostic laboratory procedures.

The Health Service occupies a well-designed University Health Center constructed in 1941. The three-story building, centrally located on the campus, fronting on College Avenue adjacent to Reynolds Hall, is a T-shaped structure of brick and concrete, with a front width of 88 feet and a depth of 68 feet.

On the first floor are the receiving room, the office of the secretary, offices for four physicians, a room for minor surgery, and a treatment room. One room on this floor is assigned to the University Pharmacy. On the second floor is the diagnostic laboratory equipped for serological, chemical, bacteriological, and hematological examinations. The X-ray unit, equipped for fluoroscopy

and radiography, and with a photo-roentgen unit, is located in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor also are rooms occupied by the Department of Pathology of the School of Medicine. These include a student laboratory, pathological museum, preparation room, stock room, and the necessary offices and individual laboratories. The third floor is designed for the hospitalization of students. On the main corridor are rooms accommodating 16 hospital beds. In the rear wing, on a private corridor, are two isolation wards with seven beds for contagious diseases. This corridor has its own bath, toilet, diet kitchen, and utility room. The third floor also includes a room equipped for electrocardiography and basal metabolism testing, and a three-room suite designed as living quarters for nurses.

### **Clinical and Special Facilities**

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine.

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the Heiskell Memorial Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia County, the Department of Pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the Heiskell Memorial Hospital, the Monongalia General Hospital, and the Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

### **Seminar**

On alternate Friday afternoons at 4 o'clock there is held a seminar attended by Faculty and students of the School of Medicine. The program

consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the Faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

### **Journal Club**

The Journal Club, organized by the Faculty of the School of Medicine, meets once each week during the Fall, Winter, and Spring terms. At each meeting a member presents for discussion a report of outstanding papers published in his field of interest. Students and Faculty are invited to attend and to join in the discussions.

### **Organizations and Lectureships**

#### **ALUMNI ASSOCIATION**

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

#### **JOHN NATHAN SIMPSON LECTURESHIP**

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, Dean Emeritus of the School of Medicine, giving an annual lecture by some one distinguished in medical research or practice.

### **REQUIREMENTS FOR ADMISSION**

The requirements for admission to the Medical School of West Virginia University conform to the standards of the Association of American Medical Colleges and the Council on Medical Education and Hospitals of the American Medical Association; however, they exceed the minimum standards of these associations.

All applications for admission are passed upon by the Committee on Admissions of the Medical School, composed of five members of the Medical Faculty. Admission is by recommendation of this Committee and with the approval of the Dean of the School.

Men whose education was interrupted by service in the Armed Forces should consult the Medical School very early about their plans for completion of the required pre-medical studies.

#### **1. Subject Requirements for Admission**

To be eligible for admission, the applicant must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college. Credits submitted by applicants for work done elsewhere than in West Virginia University are evaluated by the Registrar of the University and must meet the general standards set by the University for acceptance of credits by transfer.

A detailed statement of subject requirements follows:

## Secondary-school Credits Required

For admission to the Medical School the applicant must have credit for at least 15 units of high-school work. This must include four units of English,\* two of mathematics (algebra, one, and plane geometry, one), and other subjects as specified in the general admission requirements of the University. The School of Medicine strongly urges two units of Latin.

## College Credits Required

The applicant must have credit for at least three years in a college of recognized standing. This credit must total at least 90 semester hours exclusive of military and physical education.

The council on Medical Education and Hospitals of the American Medical Association publishes a list of about seven hundred colleges which it approves for pre-medical education. Medical schools must give preference to applicants from the institutions on this list. Schools may accept students from other institutions only when they show evidence of superior ability, as indicated by adequate credits and superior grades. Students planning pre-medical work should consult the Medical School or other authentic source for information about approved colleges.

The following subjects and hours are the minimum requirements for admission. They must be met in full before enrollment in the Medical School.

**English, composition and rhetoric** ..... 6 hours

**Biological Sciences** ..... 12 hours

Should be mainly zoology and should include an advanced course in comparative anatomy of the vertebrates. Additional work is desirable and should include genetics and embryology. The following are not acceptable as part of the 12-hour requirement: human anatomy, histology or physiology, or medical bacteriology.

**Chemistry** ..... 20 hours

Must include one year of inorganic chemistry; 6 hours of qualitative and quantitative analysis; and 6 hours of organic chemistry (covering aliphatic and aromatic chemistry). Physical chemistry is desirable. Physiological chemistry is not acceptable as part of the required 20 hours.

**Physics** ..... 8 hours

**Psychology** ..... 3 hours

**A modern foreign language** ..... 12 hours

German or French preferred. Must be in one language. Two units in high school are accepted as 6 hours of the required 12 hours.

**Mathematics:** College algebra and trigonometry are strongly urged and should be taken early.

**Latin:** Either high-school or college Latin is strongly urged. It will be of great value.

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\*Students who present only 3 units of English may satisfy this requirement by making a satisfactory grade on the English Placement Test, or by successfully completing English 1C, English Composition.



**Other subjects:** The following are recommended as electives:

Art (drawing), botany, economics, geology, Greek, history, speech, political science, and sociology. The pre-medical student should secure a broad training, including adequate work outside the required scientific fields.

## 2. Scholarship

The number of students that can be admitted is strictly limited. The School reserves the right to reject any applicants whose pre-medical records are of unsatisfactory standing. Students are chosen from the better-qualified applicants, and for several years all places have been filled by students from the upper half of the pre-medical classes, whose average grades were above "C". Experience has shown that usually only such students are able successfully to carry the work of the Medical School.

In computing average grades of students applying for admission to the School of Medicine, grades are expressed in numerical points per semester hours as follows:

A .....	3	D .....	0
B .....	2	E .....	minus 1
C .....	1	F .....	minus 2

These values are applied to all courses for which the student has registered (military and physical education excepted) in all institutions attended. When grades are expressed in a system different from the one used at West Virginia University, the values are adjusted to give an equivalent measure of accomplishment.

## 3. Medical-aptitude Test

Applicants are required to take the medical-aptitude test sponsored by the Association of American Medical Colleges. This test is now administered by the Graduate Record Examination Board and is given at convenient THREE—MEDICINE—58400 ..... centers, at dates to be announced. The rating in this test will be considered in determining the fitness of the applicant.

## 4. Residence

Preference is given to residents of West Virginia. For several years the resident applicants have been so numerous that there have been no places available for non-residents.

## 5. Personal Attributes

Careful consideration is given to those personal qualifications which have a bearing upon the fitness of the applicant for the study and practice of medicine. Students must be at least 18 years of age at the time of entrance to the Medical School. Persons who have been out of college for some years, or who are several years older than the average applicant, are admitted only when they show unmistakable evidence of superior ability and training.

## 6. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Admissions considers such readmission justified.

## 7. How to Apply for Admission

Applications for admission must be made upon blanks which may be obtained from the Dean's office upon request. No application will be con-

sidered until the Dean's office has received a complete, official transcript of all high-school and college work, including a statement of honorable dismissal. Such records should include a list of the courses in progress at the time of application. Work subsequently completed should be reported at the end of each semester or term. A recent photograph is required with the application.

It is the responsibility of the applicants (except those in residence at West Virginia University) to have all the above records forwarded to the Dean of the Medical School. After certificates have been considered by the Committee on Entrance and the credits recorded, the certificates become the property of the University and are filed permanently in the Registrar's office.

#### **8. When to Apply for Admission**

Application should be made several months before the opening date of the Medical School and may be made as much as a year in advance. Applications will be considered until the class is filled.

#### **9. Date of Notification of Applicants**

No definite dates can be set for notification of applicants about action by the Admissions Committee. Applications will be considered as promptly as possible and the Committee will inform applicants of its action whether favorable or unfavorable.

#### **10. Advance Deposit Fee**

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first term. If this fee is not received within the time designated, the place will be considered open to other applicants. Checks should be made payable to West Virginia University. If the applicant fails to enter the School of Medicine, this deposit is forfeited. The deposit paid by students who are under the G. I. Bill of Rights will be refunded after the full tuition has been paid.

## **REGISTRATION**

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each semester as announced in the calendar on page 3 of this **Bulletin**.

No student will be permitted to register in the School of Medicine after the first week of classes.

## **Departure from Scheduled Work**

Students must register for all the prescribed courses for each semester except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## FEES

All fees are due and payable at the office of the Comptroller on the day of registration.<sup>1</sup> Students registering in the School of Medicine pay the following:

### Advance Deposit Fee

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list of registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first term. If the applicant fails to enter the School of Medicine this deposit fee is forfeited by the applicant. The deposit paid by students under the G. I. Bill of Rights will be refunded after the full tuition has been paid.

### Tuition and Other Fees

	Residents <sup>3</sup>	Non-Residents <sup>3</sup>
Full-time students <sup>2</sup> (per semester) Tuition .....	\$ 87.00	\$ 162.00
University Fees .....	40.00	40.00
	<hr/>	<hr/>
Total .....	\$ 127.00	\$ 202.00
Part-time students (per semester hour) <sup>2</sup> .....	8.00	12.50

### SPECIAL FEES

Late registration <sup>4</sup> .....	\$ 2.00
Diploma fee <sup>5</sup> .....	10.00
Student's record fee <sup>6</sup> .....	1.00
Breakage deposit .....	10.00

University students not regularly enrolled in the Medical School, for one laboratory course, \$5.00, and for more than one course, \$10.00.

<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the Registrar shall notify their instructors that their class cards are to be withdrawn.

<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during a term. A part-time student is one who is registered for fewer than 10 semester hours per term.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance, or otherwise he has established a valid legal domicile in this State, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>4</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 3.

<sup>5</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>6</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

### REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University.

	Amount of Refund
During the first and second weeks .....	All fees less \$3.00
During the third and fourth weeks .....	80% of fees
During the fifth and sixth weeks .....	60% of fees
During the seventh and eighth weeks .....	40% of fees
Beginning with ninth week .....	No refunds allowed

### STANDARDS OF SCHOLARSHIP

#### Grading and Honor Points

- A—excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above the average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—condition<sup>7</sup>
- F—failure

FIW—failure because of irregular withdrawal

I—incomplete<sup>8</sup>

W—all withdrawals prior to the end of the second week following the date set for mid-semester reports

WP—withrew passing after the end of the second week following the date set for mid-semester reports

WF—withrew failing after the end of the second week following the date set for mid-semester reports

The quality of a student's work shall be expressed in honor points, which are based only on grades earned in West Virginia University. All courses taken in this institution which are offered toward credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of 1 honor point per credit-hour to be eligible for graduation. For credit toward graduation, grades carry honor-point values as follows: A-3; B-2; C-1; D-0.

#### Removal of Conditions

Examinations for the removal of conditions incurred during the first semester will be held during the week following Easter vacation. Examinations for conditions incurred during the second semester of the first year will be held during the first day of registration in September, in order that eligibility of students to enter the second year may be determined.

Examinations for the removal of conditions incurred during the second semester of the second year will be held at dates determined by agreement between the instructor concerned and the Scholarship Committee.

Before these dates, students who wish to take the examinations should make application to the professor concerned.

<sup>7</sup>A mark of "E" not removed within the following semester becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a "C" shall be recorded for the removal of a condition.

<sup>8</sup>If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

## Promotions and Suspensions

Any student who fails to make passing grades in courses amounting to at least one half of the total number of hours regularly scheduled for any semester is automatically suspended, and may be reinstated only by special action of the Committee on Scholarship.

A student who during any two consecutive semesters does not make a grade of C or higher in at least half the scheduled credit hours may not register for the next semester except by special permission of the Scholarship Committee.

No student will be permitted to take any work of the second year until all work of the first semester of the first year has been successfully completed.

No student who has aggregate failures for the second semester of the first year of as much as 5 hours will be allowed to take any work of the second year until such deficiency is removed.

## Withdrawals

A student who wishes to withdraw during the term should do so in regular manner. Consult the Dear's office for the steps which must be taken.

## REQUIREMENTS FOR DEGREES

The School of Medicine gives no degrees in medicine, except in cooperation with the Medical College of Virginia as noted on page 8, inasmuch as only the first two years of medicine are given. It, however, cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree, upon the completion of the two years of medical work, to those students who comply with certain requirements of the College of Arts and Sciences.

## PRE-MEDICAL CURRICULA

In keeping with the need for good pre-medical training, West Virginia University, through its pre-medical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia University to give special pre-medical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude in choice of electives in other departments, so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Upon the completion of the four-year pre-medical curriculum, students receive the A. B. degree in the College of Arts and Sciences. Students who enter the School of Medicine after the third year receive the A. B. degree at the end of the first year of medicine.

Another pre-medical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B. S. degree in pharmacy. For information concerning this course, inquiries should be addressed to the Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.

## THE DAY-AND-HOUR SCHEDULE

### First Year — First Semester

8                      9                      10                      11                      12                      1                      2                      3                      4                      5

M	Biochemistry			Histology	
T	Anatomy			Histology	
W	Biochemistry			Anatomy	
Th	Anatomy	Biochem.		Histology	
F	Biochemistry			Histology	
S					

### First Year — Second Semester

8                      9                      10                      11                      12                      1                      2                      3                      4                      5

M	Neuro-anatomy				Bacteriology	
T	Embry.	Anatomy	N. Anatomy		Physiology	
W	Neuro-anatomy		Physiol.		Bacteriology	
Th	Embry.	Anatomy			Bacteriology	
F	Anatomy		Physiol.		Bacteriology	
S						

## THE DAY-AND-HOUR SCHEDULE

### Second Year — First Semester

	8	9	10	11	12	1	2	3	4	5
M	Medicine		Physiol.	Path.				Pathology		
T	Pharm.	Physiol.	Hygiene	Path.				Physiology		
W	Pharm.	P. Diag.	Physiol.	Path.				Pathology		
Th	Pharm.	Psychob.	Physiol.	Path.				Physiology		
F	Biostat.	Pathol.	Physiol.	Hygiene				Pathology		
S										

### Second Year — Second Semester, First Half

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Cl. Path.	Obstet.	Phy. Diag.			Pharmacology			
T	Pharm.	Med.	Hist. Med.	Surgery			Applied Anatomy			
W	Pharm.	Cl. Path.	Clinical Pathology				Pharmacology			
Th	Pharm.	Med.	Obstet.	Surgery			Applied Anatomy			
F			Clinical Pathology				Pathology			
S	Phys. Diag.									

### Second Year — Second Semester, Second Half

	8	9	10	11	12	1	2	3	4	5
M	Med. or Surg.		Obstet.	Pathol.			Pathology		Anesth	
T	Surg. or Med.		Pharm.	Surgery			Med.	Clin. Path.		
W	C. Path.	Ph. Diag.	Obstet.	Pathol.			Pharmacology			
Th	C. Path.	Phys. Diag.	Pharm.	Surgery			Med.	Clin. Path.		
F	Ph. Diag.		Pharm.	Cl. Path.			Clinical Pathology			
S										

## THE SCHEDULE OF COURSES FOR 1947-48

	Hrs. per week			Hrs. per semester			Semester Hours' Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total	
<b>First Year — First Semester</b>							
Gross Anatomy 201 .....	2	8	10	32	128	160	6
Histology 211 .....	3	9	12	48	144	192	6
Biochemistry 231 .....	4	9	13	64	144	208	7
<b>First Year — Second Semester</b>							
Gross Anatomy 202 .....	2	6	8	32	96	128	4
Neuro-Anatomy 203 .....	2	6	8	32	96	128	4
Embryology 212 .....	2	0	2	32	0	32	2
Medical Bacteriology 221 ....	3	9	12	48	144	192	6
Physiology 242 .....	2	3	5	32	48	80	3
<b>Second Year — First Semester</b>							
Physiology 243 .....	5	6	11	80	96	176	7
Gen. and Tumor Pathology 251	5	9	14	80	144	224	7
Pharmacodynamics 262 .....	3	0	3	48	0	48	3
Hygiene 222 .....	2	0	2	32	0	32	2
Introductory Medicine 272 ..	0	2	2	0	32	32	*
Psychobiology 273 .....	1	0	1	16	0	16	1
Biostatistics 274 .....	1	0	1	16	0	16	1
Physical Diagnosis 271 .....	1	0	1	16	0	16	*
<b>Second Year — Second Semester, First Half</b>							
Applied Anatomy 204 .....	2	4	6	16	32	48	2**
Clinical Pathology 252 .....	2	4	6	16	32	48	***
Special Pathology 254 .....	1	2	3	8	16	24	***
Medical Pharmacology 263 ..	4	6	10	32	48	80	***
Obstetrics 291 .....	2	0	2	16	0	16	***
History of Medicine 275 .....	1	0	1	8	0	8	0
Physical Diagnosis 271 .....	1	2	3	8	16	24	***
Introductory Medicine 272 ...	2	0	2	16	0	16	***
Surgery, Principles of 281 ...	2	0	2	16	0	16	***
<b>Second Year — Second Semester, Second Half</b>							
Special Pathology 252 .....	2	2	4	16	16	32	2
Clinical Pathology 254 .....	3	7	10	24	56	80	3
Medical Pharmacology 263 ....	3	3	6	24	24	48	4
Clinical Anesthesiology 264 ..	1	0	1	8	0	8	0
Obstetrics 291 .....	2	0	2	16	0	16	2
Physical Diagnosis 271 .....	2	2	4	16	16	32	3
Introductory Medicine 272 ...	2	2	4	16	16	32	3
Surgery, Principles of 281 ....	2	2	4	16	16	32	2

\*Course continues throughout the year.

\*\*Course completed at mid-semester.

\*\*\*Course continues throughout the semester.



## THE COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 1 to 99—courses primarily for freshmen and sophomores.

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester.

II—a course offered during the second semester.

I, II—a semester course offered each semester.

Yr.—a continuous course extending through two semesters.

Hrs.—Number of semester hours credit per course.

NOTE—Courses marked "1" are required of first-year students; those marked "2" are required of second-year students. •

In addition to the required courses there are listed some elective courses for the benefit of other University students who may need them. They are given only when, in the opinion of the department concerned and of the Dean, it is considered advisable. If there should arise a demand for any of these courses, the Medical School will try to meet the need, but the schedule will be contingent upon the extent to which staff members are occupied with the required medical courses.

### Gross Anatomy and Neuro-anatomy

Professor CHANDLER; Associate Professor CLARK; Assistant Professor WILLIAMS,  
Assistant HESS

201.<sup>1</sup> **Gross Anatomy. I.** 6 Hrs. Lecture, 2 hours per week; laboratory, 8 hours.

202.<sup>1</sup> **Gross Anatomy. II.** 4 Hrs. Continuation of Anatomy 201. Lecture, 2 hours per week; laboratory, 6 hours.

203.<sup>1</sup> **Neuro-anatomy. II.** 4 Hrs. Lecture, 2 hours per week; laboratory, 6 hours.

204.<sup>2</sup> **Applied Anatomy. II.** 2 Hrs. Lecture, 2 hours per week; laboratory, 4 hours during first half of semester.

206. **Anatomy of the Sympathetic Nervous System. I or II.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

207. **Applied Anatomy of the Pelvis and Perineum. I or II.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

301. **Advanced Anatomy. I or II.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Histology and Embryology

Professor DODDS; Assistant Professor WILLIAMS

211.<sup>1</sup> **Histology. I.** 6 Hrs. Histological structure and elementary embryology of tissues and organs. Lecture, 3 hours per week; laboratory, 9 hours.

212.<sup>1</sup> **Human Embryology. II.** 2 Hrs. Comprehensive survey of human development in relation to gross and microscopic structure. Lecture, 2 hours per week.

216. **The Histology and Development of the Skeletal System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature.
217. **Advanced Embryology.** I or II. 2-5 Hrs. Topics to be chosen to meet special needs of students. Hours to be arranged. Open to properly qualified students.
311. **Research in Microscopic or Developmental Anatomy.** I or II or Yr. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### **Bacteriology and Public Hygiene**

Associate Professor SLACK; Assistant WILSON

220. **Pathogenic Bacteriology.** I. 5 Hrs. Required of students in pharmacy and medical technology. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours.
- 221.<sup>1</sup> **Medical Bacteriology.** II. 6 Hrs. Lecture, 3 hours per week; laboratory, 9 hours.
- 222.<sup>2</sup> **Public Hygiene.** I. 2 Hrs. Lecture, 2 hours per week.
226. **Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students.
321. **Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 221 or equivalent.

### **Biochemistry**

Professor MACLACHLAN; Assistants GOVER and MCGEE

- 139 or 239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of plants and animals with special reference to man. PR: Inorganic and organic chemistry. Quantitative analysis desirable. Lecture, 3 hours per week; laboratory, 5 hours. Graduate students required to do one hour additional work per week for 4 hours' credit.
- 231.<sup>1</sup> **Biochemistry.** I. 7 Hrs. Lecture, 4 hours per week; laboratory, 9 hours.
236. **Advanced Biochemistry.** I or II. 2-5 Hrs. With special emphasis on biochemical methods. Hours to be arranged. Open to properly qualified students.
331. **Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students.

### **Physiology**

Professor VAN LIERE; Associate Professor NORTHUP; Assistant Professor STICKNEY

141. **Elementary Physiology.** II. 4 Hrs. For students in Pharmacy and Medical Technology. Lecture, 3 hours per week; laboratory, 3 hours.
- 242.<sup>1</sup> **Physiology.** II. 3 Hrs. Physiology of muscle and nervous system. Lecture, 2 hours per week; laboratory, 3 hours.
- 243.<sup>2</sup> **Physiology.** I. 7 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours.
246. **Seminar in Physiology.** Yr. No credit.

247. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged.
248. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged.
249. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged.
341. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the master of science degree.

### Pathology

Professor FENTON; Assistant Professor WADE; Instructor EDMISTON

151. **Clinical Laboratory Diagnostic Methods.** II. 4 Hrs. Study of blood, exudates, transudates, gastric contents, urine, etc. Lecture, 2 hours per week; laboratory, 6 hours. Required of students in Medical Technology.
- 251.<sup>2</sup> **General and Tumor Pathology.** I. 7 Hrs. Includes both gross and microscopic studies with demonstrations. Lecture, 4 hours per week; laboratory, 10 hours.
- 252.<sup>2</sup> **Special Pathology.** II. 2 Hrs. A study of special diseases with gross and microscopic specimens from selected autopsies. Lecture, 1 hour, laboratory, 2 hours per week during first half of semester; lecture, 2 hours per week; laboratory, 2 hours during second half of semester.
- 254.<sup>2</sup> **Clinical Pathology.** II. 3 Hrs. A laboratory course in blood, gastric contents, urine, etc., and their pathological and clinical significance. Lecture, 2 hours per week; laboratory, 4 hours during first half of semester; lecture, 3 hours per week; laboratory, 7 hours during second half of semester.
256. **Advanced Pathology.** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 251.
351. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Pharmacology

Associate Professor MARSH; Instructor ROSS; Lecturers TUCKER and HAYMAN

- 262.<sup>2</sup> **Pharmacodynamics.** I. 3 Hrs. Lecture, 3 hours per week.
- 263.<sup>2</sup> **Medical Pharmacology.** II. 4 Hrs. Lecture, 4 hours per week, laboratory, 6 hours, first half of semester; lecture, 3 hours per week, laboratory, 3 hours, second half of semester.
- 264.<sup>2</sup> **Clinical Anesthesiology.** II. No credit. Practical demonstrations of anesthesia to be arranged. 1 hour per week, second half of semester.
266. **Biochemorphology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 262, or Chemistry 238 or 277.
267. **Bioassay and Comparative Pharmacology.** I or II. 3 Hrs. Lecture and demonstrations, 2 hours per week; laboratory, 3 hours. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 262; or Chemistry 238 or 277 and Histology 211; or Pharmacy 110.
268. **Advanced Pharmacology.** I or II. 2-5 Hrs. Hours to be arranged. Rational investigation of new drugs.
269. **Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week; laboratory, 3 hours. PR: Physiology 242.

361. **Research in Pharmacology.** I or II. 2-5 Hrs. Hours to be arranged. PR: Graduate status in physiology, chemistry, or agriculture.

## Medicine

Associate Professors LAWLESS and SLEETH; Assistant Professors MAXWELL, WHITTLESEY, SALKIN; Instructors JOHNSON, STARKEY, TEITELBAUM, and GADZIKOWSKI

- 271.<sup>2</sup> **Physical Diagnosis.** Yr. 3 Hrs. Lecture, 1 hour per week during first semester; lecture, 1 hour per week, laboratory, 2 hours during first half of second semester; lecture, 2 hours per week, practical work with patients, 2 hours during second half of second semester. Hospital clerkship at Hopemont Sanitarium, 1 week.
- 272.<sup>2</sup> **Introductory Medicine.** Yr. 3 Hrs. Medical clinic—demonstration of clinical cases, 2 hours per week during first semester; lecture, 1 hour per week during first half of second semester; lecture, 2 hours, demonstration of clinical cases, 2 hours per week during second half of second semester. Hospital clerkship at Hopemont Sanitarium, 1 week.
- 273.<sup>2</sup> **Psychobiology.** I. 1 Hr. Introduction to the study of human personality, normal and abnormal. Lecture, 1 hour per week.
- 274.<sup>2</sup> **Biostatistics.** I. 1 Hr. Planned to aid in the understanding of the statistical methods commonly used in medical and biological work, and in the evaluation of experimental data in these fields. Lecture, 1 hour per week.

## History of Medicine

Professor CHANDLER

- 275.<sup>2</sup> **History of Medicine.** II. No credit. A brief history of the development of the science and art of medicine. Lecture, 1 hour per week during first half of semester.

## Introductory Surgery

Associate Professor PRIDE

- 281.<sup>2</sup> **Principles of Surgery.** II. 2 Hrs. Lecture, 2 hours per week during first half of semester; lecture, 2 hours per week during second half of semester, demonstrations of clinical cases and operative technique, 2 hours.

## Obstetrics

Professor VAN LIERE

- 291.<sup>2</sup> **Obstetrics.** I. 2 Hrs. An introductory course in obstetrics. Lecture, 2 hours per week.

## THE LIST OF STUDENTS 1946-47

## First-year Students (Entered September 16, 1946)

Ayers, Thomas William .....	Richwood
Blethen, Marguerite Ora .....	Huntington
B.S., Marshall College, 1946	
Bush, Ivan Hays, Jr. ....	Reedy
A.B., Glenville State Teachers College, 1934; M.S., W. Va. University, 1936	
Clark, Kenneth Lawrence .....	Charleston
Connolly, Ira, Jr. ....	Parkersburg
A.B., Ohio University, 1946	
Coogle, John Jenkins .....	Rivesville
A.B., Fairmont State Teachers College, 1941	
Cowan, Robert Calton, Jr. ....	Morgantown
A.B., West Virginia University, 1946	
Crabtree, William Vickers .....	Wellsburg
Ferrara, Richard .....	Morgantown
A.B., West Virginia University, 1946	
Foley, John Morgan .....	Fairmont
Gamsjager, Dorsey Carlyle .....	Grafton
A.B., West Virginia University, 1946	
Garrett, Charles Melvin, Jr. ....	Weston
Gover, Janis .....	Charleston
A.B., West Virginia University, 1945	
Hampton, Florine Kirk .....	Kermit
Hesen, John William, Jr. ....	Morgantown
A.B., West Virginia University, 1933; M.S., W.V.U., 1934	
Holt, Roland, Jr. ....	Clarksburg
Jackley, Robert W. ....	Cameron
Kalo, Jasper .....	Morgantown
McMullen, Jane .....	Wellsburg
B.S., Bethany College, 1946	
Martin, Homer Delmar .....	Montrose
A.B., West Virginia University, 1940	
Maust, Paul Edison .....	Morgantown
B.S., West Virginia University, 1943	
Pasquale, Andrew James .....	Williamson
Patterson, Helen A. ....	Fairmont
A.B., Fairmont State Teachers College, 1911	
Rodgers, Errett, Jr. ....	Morgantown
A.B., West Virginia University, 1945	
Royer, Thomas Carroll .....	Morgantown
B.S., Loyola College, 1945	
Shaffer, Lee W. Jr. ....	Morgantown
Sherman, Leo F. ....	Beekley
B.S., Bethany College, 1943	
Shutts, Artha Jane .....	Fairmont
A.B., West Virginia University, 1946	
Smith, Joseph A. ....	Sutton
Summers, John E. ....	Fairmont
Zumbrunnen, Mary E. ....	Huntington
B.S., West Virginia Wesleyan College, 1945	

## Second-year Students (Entered September 16, 1947)

*Anderson, John Powell .....	Lynchburg, Va.
Bos, Jacob Kempe .....	Buckhannon
A.B., University of Southern California, 1945.	
*Boutwell, William Staples .....	Huntington
A.B., Emory and Henry College, 1945	
Davis, Preston Caldwell .....	Morgantown
A.B., West Virginia University, 1946	
DeLorenzo, Angeline .....	Fairmont
Doboy, Joseph Geza .....	Morgantown
B.S., Juniata College, 1937	
*Eskev, Chester White .....	Wheeling
*Franklin, Marvin .....	Wheeling
Goldfarb, Martin Samuel .....	Charleston
A.B., West Virginia University, 1946	
Guido, Angelina .....	Morgantown
A.B., West Virginia University, 1945	
*Hendrick, James Wesley .....	Keithville, La.
*Herbert, Earle Avery .....	Forty Fort, Pa.
Hess, Helen Hope .....	Morgantown
A.B., West Virginia University, 1946	
Hoyhnan, George .....	Buckhannon
B.S., West Virginia Wesleyan College, 1936; M.S., West Virginia University, 1941	
Kamons, Harold Oliver .....	Parkersburg
A.B., West Virginia University, 1945	
Kurtz, Morton .....	Bronx, N. Y.
Michael, Guy Hobert .....	Parsous
A.B., West Virginia University, 1946	
Moncure, William Bigbie .....	Radford, Va.
Pelletier, Martha Hyre .....	Charleston
A.B., Marietta College, 1939	
*Pinney, Edward Lovell, Jr. ....	Dixie
*Reinstine, Harry Wampole .....	Jacksonville, Fla.
Ritchie, Laurella June .....	Ravenswood
A.B., West Virginia University, 1945	
*Siegel, Donald Gabriel .....	Chicago, Ill.
*Stout, Wallace Cornelius .....	Delta, Ohio
*Varga, Julius .....	New York City, N. Y.
*Williams, David Harold .....	Cleveland, Ohio

\*Assigned to Medical School by U. S. Army or Navy as first-year student in September 1945.

**WEST VIRGINIA UNIVERSITY**  
**THE SCHOOL OF MEDICINE**  
**THE CURRICULUM IN MEDICAL TECHNOLOGY**

**General Information**

The curriculum in Medical Technology leads to the degree of Bachelor of Science (Medical Technology). This curriculum prepares students to serve as technicians in hospitals, clinics, research laboratories, etc., and in offices of private physicians.

Training standards for laboratory technicians are under the general supervision of the Council on Medical Education and Hospitals of the American Medical Association, which inspects, evaluates, and approves schools. This school is included in the list of those approved by the American Medical Association. In this field, properly qualified persons, upon passing the required examinations, may be certified by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

During the first two years the student is registered in the College of Arts and Sciences and is under the supervision of the pre-medical adviser. These two years are considered as a preliminary training.

The third and fourth years include the specialized and technical training of the curriculum. During these years the student is under the jurisdiction of the School of Medicine. But these students are not to be regarded as medical students, nor can any course taken during these years be counted toward the M. D. degree.

The work of the last year is largely individual in nature, carried on in various laboratories and hospitals. The students are considered as temporary members of the laboratory staff and are subject to the usual staff regulations and discipline of the regular staff.

**Requirements for Admission**

- (a) Admission requirements to the first year are the same as for the College of Arts and Sciences of West Virginia University, namely, 15 units of high-school work, including the subjects specified in the University catalogue.
- (b) For admission to the third year, the first two years of the curriculum outlined below must be completed, either in West Virginia University or in other institutions of recognized standing.
- (c) Only a limited number of students can be accommodated in the third and fourth years. Preference is given to residents of West Virginia. Application should be made on forms obtainable from the Medical School and presented at the office of the Dean of the School of Medicine. Applications will be considered after the scholastic records for three semesters is available.

## Requirements for the Degree

The degree, Bachelor of Science (Medical Technology), will be given upon completion of the curriculum outlined below.

### Fees

For the first two years, students pay the regular fees charged in the College of Arts and Sciences. In the last two years, while students are under the jurisdiction of the School of Medicine, there is an additional tuition fee of \$25 per semester. There is a breakage deposit of \$10 per year.

## Committee on Medical Technology

E. J. VAN LIERE (Dean of Medical School) *Chairman*.

G. S. DODDS (Chairman of Committee on Entrance and Scholarship).

C. C. FENTON (Professor of Pathology and Clinical Pathology).

DAVID SALKIN (Superintendent of Hopemont Sanitarium and Assistant Professor of Medicine W. V. U.).

JOHN M. SLACK (Associate Professor of Bacteriology and Public Hygiene).

P. L. MACLACHLAN (Professor of Biochemistry).

## THE CURRICULUM

During the first two years the student is registered in the College of Arts and Sciences.

### First Year (pre-technology)

<i>First Semester</i>	<i>Course</i>		<i>Second Semester</i>	<i>Course</i>	
<i>Subjects</i>	<i>No.</i>	<i>Hrs.</i>	<i>Subjects</i>	<i>No.</i>	<i>Hrs.</i>
Inorganic chemistry .....	3	4	Inorganic chemistry .....	4	4
General zoology .....	1	4	General zoology .....	2	4
English composition .....	1	3	English composition .....	2	3
Modern foreign language .		3	Modern foreign language .		3
Electives .....		2	Electives .....		2
Physical education .....		1	Physical education .....		1
Military .....		1	Military .....		1

### Second Year (pre-technology)

<i>First Semester</i>	<i>Course</i>		<i>Second Semester</i>	<i>Course</i>	
<i>Subjects</i>	<i>No.</i>	<i>Hrs.</i>	<i>Subjects</i>	<i>No.</i>	<i>Hrs.</i>
Qualitative analysis .....	5	4	Quantitative analysis ....	15	3
English literature .....		3	English literature .....		3
Modern foreign language .		3	Modern foreign language .		3
General physics .....	1-3	4	General physics .....	2-4	4
Electives .....		2	Electives .....		2
Physical education .....		1	Physical education .....		1
Military .....		1	Military .....		1

During the third and fourth years the student is under the jurisdiction of the School of Medicine. This part of the curriculum is open only to students approved by the Committee on Medical Technology.



### Third Year

<i>First Semester</i>			<i>Second Semester</i>		
<i>Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>	<i>Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>
Pathogenic bacteriology .	220	5	Elementary physiology .	141	4
Organic chemistry . . . . .	131	4	General biochemistry . . .	139	4
Comparative anatomy . . .	231	5	Parasitology . . . . .	120	4
Electives . . . . .		4	Clinical laboratory		
			diagnostic methods . .	151	4
			Electives . . . . .		2 or 3

### Fourth Year

The following courses comprise the work of the fourth year in the curriculum leading to the Bachelor of Science degree (Medical Technology). The work is largely individual in nature and consists mainly of practical experience under careful supervision in Laboratories and Hospitals. At present, training in these subjects is given at West Virginia University, the State Hygienic Laboratory, the Charleston General Hospital, and Hopemont Sanitarium. The work of the fourth year covers a whole calendar year of 12 months.

### Professional Courses Required of Fourth-Year Students

<i>Course No.</i>	<i>Description of Courses</i>
101.	<b>Applied Bacteriology.</b> Yr. 4 Hrs. Methods of sterilization, preparation of culture media and vaccines, staining and study of bacteria, etc.
102.	<b>Applied Parasitology.</b> Yr. 2 Hrs. Examination of feces for parasites and ova and of blood smears for parasites of the blood.
103.	<b>Applied Serology.</b> Yr. 4 Hrs. Agglutination, precipitation and complement fixation tests in serodiagnosis of syphilis and other diseases.
104.	<b>Clinical Chemistry.</b> Yr. 3 Hrs. Chemical examination of urine, blood, gastric contents, and spinal fluid for abnormal constituents and increased or decreased amounts of normal constituents.
105.	<b>Electrocardiography.</b> Yr. 2 Hrs. Study of the electrocardiographic machine and its practical employment on patients.
106.	<b>Metabolimetry.</b> Yr. 2 Hrs. Study of the metabolism of carbohydrates, proteins, fats, minerals, etc., and the technique of basal metabolism.
107.	<b>Microtechnique.</b> Yr. 3 Hrs. Histological technique including paraffin, celloidin, and frozen sections with routine and special staining procedures.
108.	<b>Normal Hematology.</b> Yr. 4 Hrs. Methods of obtaining blood, hemoglobin determinations, enumeration of erythrocytes, leucocytes, and blood platelets; study of stained blood films, etc.
109.	<b>Special Hematology.</b> Yr. 3 Hrs. Study of blood dyscrasias, hemorrhagic diseases, blood groups, etc.

110. **Record Keeping.** Yr. 2 Hrs. Study of laboratory and hospital forms with proper methods of recording findings and filing laboratory reports.
111. **Urine Analysis.** Yr. 5 Hrs. Clinical examination of normal and abnormal urines including general characteristics, qualitative and quantitative chemical analyses, microscopic studies, renal-function tests, etc.

## STUDENTS IN MEDICAL TECHNOLOGY

### Third Year

Conner Velma May .....	Gary
Figgatt, Mary Janet .....	Charleston
Hupp, Lois Lyon .....	Fairmont
Lowther, Margaret Anne .....	Clarksburg
Salvati, Mary Elizabeth .....	Holden
Shelton, Letha Agnes .....	Swiss
Watkins, Betty Jane .....	Buckhannon

### Fourth Year

Brand, Jean Marie .....	Morgantown
Gilmore, Betty Stonestreet .....	Charleston
Nach, Lucille Reva .....	Weirton
Stokes, Eleanor Joyce .....	Hinton

# **West Virginia University Bulletin**

Series 48, No. 11

May 1948

## **CATALOGUE THE SCHOOL OF MEDICINE THE 1947-48 SESSION**

**The Curriculum in Medicine  
The Curriculum in Medical Technology**



## **ANNOUNCEMENTS OF THE 1948-49 SESSION**

**MORGANTOWN, WEST VIRGINIA**

Published by the University

Entered as second-class matter, July 15, 1929, at the post office at  
Morgantown, West Virginia, under the Act of August 24, 1912  
Issued Monthly

# Year 1948

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
					1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6					1	2	3	
4	5	6	7	8	9	10	8	9	10	11	12	13	14	15	7	8	9	10	11	12	13	4	5	6	7	8	9	10
11	12	13	14	15	16	17	15	16	17	18	19	20	21	22	14	15	16	17	18	19	20	11	12	13	14	15	16	17
18	19	20	21	22	23	24	22	23	24	25	26	27	28	29	21	22	23	24	25	26	27	18	19	20	21	22	23	24
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MAY							JUNE							JULY							AUGUST							
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						1				1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
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9	10	11	12	13	14	15	13	14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
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30	31																											

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	
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26	27	28	29	30			24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31		
							31																					

# Year 1949

JANUARY							FEBRUARY							MARCH							APRIL									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
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2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12	3	4	5	6	7	8	9			
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16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26	17	18	19	20	21	22	23			
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30	31																													
MAY							JUNE							JULY							AUGUST									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
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8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13			
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														31																
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
						1							1							1	2	3					1	2	3	
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11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17			
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24			
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31			
							30	31																						

The days on which the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type.

# The University Calendar

1948

May 29, Saturday-----Alumni Day  
May 30, Sunday-----Baccalaureate Exercises  
May 31, Monday-----Commencement Day  
June 2, Wednesday-----Registration for first term, Summer Session  
June 3, Thursday-----First recitations, first term, Summer Session  
July 5, Monday (for July 4, Sunday)-----Independence Day, a holiday  
July 14, Wednesday-----Close of first term, Summer Session  
July 15, Thursday-----Registration for second term, Summer Session  
July 16, Friday-----First recitations, second term, Summer Session  
August 25, Wednesday-----Close of Summer Session  
September 9, Thursday, to September 13, Monday---Freshman Week Program  
September 11, Saturday-----Registration of Freshmen  
September 13 and 14, Monday and Tuesday---Registration for first semester  
September 15, Wednesday-----First recitations, first semester  
October 12, Tuesday-----Meeting of University Senate  
November 2, Tuesday-----Election Day, a holiday  
November 8, Monday-----Midsemester reports due  
November 24, Wednesday, to November 28, Sunday, inclusive  
Thanksgiving recess  
December 18, Saturday, to January 2, Sunday, inclusive-----Christmas recess

1949

January 15, Saturday, to January 22, Saturday, inclusive  
Final examinations for first semester  
January 25 and 26, Tuesday and Wednesday--Registration for second semester  
January 27, Thursday-----First recitations, second semester  
February 8, Tuesday-----Meeting of University Senate  
March 21, Monday-----Midsemester reports due  
April 14, Thursday, to April 20, Wednesday, inclusive-----Easter recess  
May 10, Tuesday-----Meeting of University Senate  
May 20, Friday, to May 27, Friday---Final examinations for second semester  
May 28, Saturday-----Alumni Day  
May 29, Sunday-----Baccalaureate Exercises  
May 30, Monday-----Commencement Day

# West Virginia University

Morgantown

Established February 7, 1867

## The Board of Governors\*

	TERM EXPIRES
A. C. SPURR, PRESIDENT, <i>Fairmont</i> .....	1952
THOMAS L. HARRIS, VICE-PRESIDENT, <i>Parkersburg</i> .....	1951
CHARLES P. MEAD, <i>Wheeling</i> .....	1948
MRS. GEORGE D. HILL, <i>Camden-on-Gauley</i> .....	1949
E. G. OTEY, <i>Bluefield</i> .....	1950
K. DOUGLAS BOWERS, <i>Beckley</i> .....	1953
CHARLES E. HODGES, <i>Charleston</i> .....	1954
WILLIAM G. THOMPSON, <i>Montgomery</i> .....	1955
RAYMOND E. SALVATI, <i>Huntington</i> .....	1956
CHARLES T. NEFF, JR., EXECUTIVE SECRETARY, <i>Morgantown</i>	

The Board of Governors has charge of the educational, administrative, financial, and business affairs of the University and of Potomac State School of West Virginia University.

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\*As of July 1, 1948.

PRESS OF  
MORGANTOWN PRINTING AND BINDING COMPANY  
MORGANTOWN, WEST VIRGINIA



## ADMINISTRATION

IRVIN STEWART, LL.B., A.B., A.M., PH.D., LL.D., *President of the University*  
CHARLES THOMPSON NEFF, JR., A.B., *Vice-president of the University*  
EDWARD JERALD VAN LIERE, *Dean and Professor of Physiology*  
B.A., M.S., M.D., PH.D., F.A.C.P.  
JOHN NATHAN STIMPSON,<sup>1</sup> *Dean Emeritus*  
A.B., M.D., F.A.C.P.

## THE FACULTY

### Professors

EDWARD JERALD VAN LIERE, *Professor of Physiology and Dean*  
B.A., M.S., University of Wisconsin, 1915, 1916; M.D., Harvard University, 1920; PH.D., University of Chicago, 1927; F.A.C.P.  
GIDEON STANHOPE DODDS, *Professor of Histology and Embryology, and Chairman of Committee on Admissions and Scholarship*  
B.A., M.A., University of Colorado, 1904, 1905; PH.D., University of Pennsylvania, 1910.  
ROBB SPAULDING SPRAY, *Professor Emeritus of Bacteriology and Public Hygiene*  
B.S., Purdue University, 1914; M.S., Pennsylvania State College, 1917; PH.D., University of Chicago, 1925.  
SIMON B. CHANDLER, *Professor of Gross Anatomy and Neuro-anatomy*  
A.B., University of Missouri, 1922; A.M., M.D., Northwestern University, 1926, 1927.  
PERCIVAL LLOYD MACLACHLAN, *Professor of Biochemistry*  
B.A., Queens University, 1931; PH.D., University of Rochester, 1935.  
DAVID FIELDING MARSH, *Professor of Pharmacology*  
A.B., West Virginia University, 1939; M.S., Purdue University, 1940; PH.D., University of California, 1942.  
MILFORD LEROY HOBBS, *Professor of Pathology and Clinical Pathology*  
M.D., Washington University, 1931; Fellow American College of Physicians, Fellow College of American Pathologists, Diplomate, American Board of Pathology.

### Associate Professors

DAVID WILMARTH NORTHUP, *Associate Professor of Physiology*  
A.B., Reed College, 1930; A.M., University of Oregon, 1932; PH.D., University of Illinois, 1935.  
CECIL BENJAMIN PRIDE,<sup>2</sup> *Associate Professor of Surgery*  
A.B., Ohio Wesleyan University, 1916; B.S., West Virginia University, 1921; M.D., Western Reserve University, 1923; F.A.C.S.  
JOHN JOSEPH LAWLESS, *Associate Professor of Medicine and Director of University Health Service*  
B.S., M.A., PH.D., University of Minnesota, 1930, 1931, 1934; M.D., Rush Medical College, 1939.  
JOHN MADISON SLACK, *Associate Professor of Bacteriology and Public Hygiene*  
A.B., M.S., PH.D., University of Minnesota, 1936, 1937, 1940.  
CLARK KENDALL SLEETH, *Associate Professor of Medicine and Physician in University Health Service*  
A.B., B.S., West Virginia University, 1933, 1935; M.D., University of Chicago, 1938.

<sup>1</sup>Deceased, November 23, 1947.

<sup>2</sup>Part-time. In private practice.

THOMAS WALLEY WILLIAMS, *Associate Professor of Histology and Anatomy*  
B.S., M.S., Ph.D., University of Pittsburgh, 1934, 1937, 1939.

### Assistant Professors

GEORGE RALPH MAXWELL,<sup>2</sup> *Assistant Professor of Medicine (Physical Diagnosis)*  
B.S., West Virginia University, 1921; M.D., University of Cincinnati, 1923;  
F.A.C.P.

FREDERICK RENDELL WHITTLESEY,<sup>2</sup> *Assistant Professor of Medicine*  
A.B., Wooster College, 1921; M.D., Western Reserve University, 1925;  
F.A.C.P.

DAVID SAIKIN, *Assistant Professor of Medicine (Physical Diagnosis)*  
(*Superintendent of Hopewell Sanitarium*)  
M.D., University of Toronto, 1929; F.A.C.P.

JOHN CLIFFORD STICKNEY, *Assistant Professor of Physiology*  
B.S., Wheaton College, 1932; M.S., University of Washington, 1936; Ph.D.,  
University of Minnesota, 1940.

JOSEPH L. KNAPP, *Assistant Professor of Psychiatry, (Superintendent of Weston State Hospital)* B.S., M.D., University of Illinois, 1934.

RUSSELL ELWOOD STRAUB, *Assistant Professor of Pathology*  
M.D., Temple University, 1938.

ERNEST HARRY DUDWIG, *Assistant Professor of Bacteriology*  
B.S., M.S., Ph.D., University of Pennsylvania, 1937, 1938, 1947.

### Instructors

CARL EDWARD JOHNSON,<sup>2</sup> *Instructor in Medicine (Physical Diagnosis)*  
A.B., B.S., West Virginia University, 1923, 1925; M.D., Northwestern  
University, 1928; F.A.C.P.

ARCHIE LEMUEL STARKEY, *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopewell Sanitarium*)  
B.S., West Virginia University, 1924; M.D., University of Arkansas, 1937.

CHARLES ALBERT ROSS,<sup>3</sup> *Instructor in Pharmacology*  
B.S., Purdue University, 1940; M.S., University of Kentucky, 1942.

ISABELLE T. GADZIKOWSKI, M.D., *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopewell Sanitarium*)

HAROLD HENRY TEITELBAUM, M.D., *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopewell Sanitarium*).

CLARENCE MURPHY COMBS, *Instructor in Anatomy*  
A.B., Transylvania College, 1943; M.S., Northwestern University, 1947.

### Assistants

HELEN HOPE HESS, *Assistant in Anatomy*  
A.B., West Virginia University, 1946.

BETTY STONESTREET GILMORE, *Assistant in Biochemistry*  
B.S., West Virginia University, 1947.

JOSEPH GEORGE MATTHEWS, *Assistant in Biochemistry*

DONALD ATWOOD HERRING, *Assistant in Pharmacology*  
B.S., Ohio State University, 1941.

MARY GIBSON TINGLEY, *Graduate Assistant in Bacteriology*  
B.S., West Virginia University, 1946.

<sup>2</sup>Part-time. In private practice.

<sup>3</sup>Resigned during year.



### Lecturers

- ELDON BRYANT TUCKER,<sup>2</sup> *Lecturer in Pharmacology (Anesthesiology)*  
 B.S., West Virginia University, 1919; M.D., University of Cincinnati, 1921.  
 JOSEPH LESTER HAYMAN, *Lecturer on Prescription Writing and on food, drug, and narcotic laws relating to physicians*  
 (Dean and Professor of Pharmacognosy, College of Pharmacy)  
 Ph.C., M.S., University of Michigan, 1919, 1925.

### Technicians

- DAVID SAMUEL BARRICKMAN,<sup>3</sup> *Technician in Anatomy and Histology*  
 B.S., M.S., West Virginia University, 1932, 1933.  
 ERNEST JOHNSON,<sup>3</sup> *Technician in Bacteriology*  
 LELA VIRGINIA STUMP, *Technician in Pathology*  
 M.T., Jefferson Medical College, 1945.  
 EDNA WILSON BROOKS, *Technician in Pathology*  
 CHESTER EARL RAY, *Technician in Anatomy and Histology*  
 RUTH ASHENFELTER WELLS, *Technician in Bacteriology*

### Clerical

- VIRGINIA LEE STUMP,<sup>3</sup> *Secretary of College and Record Clerk*  
 MARTHA MARSH COWELL, *Secretary of College and Record Clerk*  
 B.S., M.S., West Virginia University, 1947.  
 JOSEPHINE HARRIS, *Secretary, Department of Pathology*  
 VIVIAN WILLIAMS,<sup>3</sup> *Secretary to the Dean*  
 LOIS GREEN CONLEY, *Secretary to the Dean*

## THE UNIVERSITY HEALTH SERVICE

### Physicians

- JOHN JOSEPH LAWLESS, *Director of University Health Service and Associate Professor of Medicine*  
 B.S., M.A., Ph.D., University of Minnesota, 1930, 1931, 1934; M.D., Rush Medical College, 1939.  
 SAMUEL JOHN MORRIS, *Physician and Medical Adviser to the Department of Athletics*  
 M.D., University of Maryland, 1912.  
 CLARK KENDALL SLEETH, *Physician and Associate Professor of Medicine*  
 A.B., B.S., West Virginia University, 1932, 1935; M.D., University of Chicago, 1938.  
 DORCAS CLARK HARLEY, *Physician in University Health Service*  
 A.B., West Virginia University, 1943; M.D., University of Maryland, 1945.

### Nurses

- ETHEL FEATHER ELLIS, *Nurse in the University Health Service*  
 BETTY EMERSON, R.N., *Nurse in the University Health Service*  
 MARY STENGER, R.N., *Nurse in the University Health Service*

<sup>2</sup>Part-time. In private practice.

<sup>3</sup>Resigned during year.

<sup>4</sup>On leave of absence for military service.

### Technicians

FABRY LIVINGSTON HAWK, *Chief Technician in the University Health Service*  
Registered Medical Technologist.

AILON BUFORD LINGAR,<sup>4</sup> *Technician in the University Health Service*  
A.B., West Virginia University, 1942.

### Clerical

HELEN CLARISSA O'NEILL, *Secretary in the University Health Service*  
MARGARET BRODERICK, *Clerk in the University Health Service*  
B.S., West Virginia University, 1946.

## THE STANDING COMMITTEES

EXECUTIVE: E. J. VAN LIERE (*chairman*), G. S. DODDS, F. R. WHITTLESEY, and  
C. B. PRIDE.

ADMISSIONS AND SCHOLARSHIP: G. S. DODDS (*chairman*), S. B. CHANDLER,  
P. L. MACLACHLAN, C. K. SLEETH, and M. L. HOBBS.

LIBRARY: S. B. CHANDLER (*chairman*), J. C. STICKNEY, P. L. MACLACHLAN, C. K.  
SLEETH, and J. M. SLACK.

RESEARCH: E. J. VAN LIERE (*chairman*), D. W. NORTHUP, D. F. MARSH, and P. L.  
MACLACHLAN.

SEMINARS: G. S. DODDS (*chairman*), J. C. STICKNEY, E. J. VAN LIERE, C. K.  
SLEETH, and J. M. SLACK.

CLINICAL AND SPECIAL FACILITIES: C. K. SLEETH (*chairman*), J. J. LAWLESS,  
C. B. PRIDE, M. L. HOBBS, G. R. MAXWELL, and F. R. WHITTLESEY.

CURRICULUM: C. K. SLEETH (*chairman*), P. L. MACLACHLAN, E. J. VAN LIERE,  
D. F. MARSH, and G. S. DODDS.

STUDENT LOANS AND SCHOLARSHIPS: E. J. VAN LIERE (*chairman*), G. S.  
DODDS, P. L. MACLACHLAN, and J. C. STICKNEY.

POLICY: E. J. VAN LIERE (*chairman*), S. B. CHANDLER, G. S. DODDS, M. L. HOBBS,  
J. J. LAWLESS, P. L. MACLACHLAN, D. F. MARSH, J. M. SLACK, and C. K.  
SLEETH.

MEDICAL TECHNOLOGY: M. L. HOBBS, (*chairman*), G. S. DODDS, P. L. MAC-  
LACHLAN, DAVID SALKIN, JOHN M. SLACK, and E. J. VAN LIERE.

GRADUATE STUDY: J. M. SLACK (*chairman*), P. L. MAC LACHLAN, D. F. MARSH,  
and J. C. STICKNEY.

## Curriculum In Medicine

(For curriculum in Medical Technology, see p. 28)

### GENERAL INFORMATION

#### Instruction in Medicine

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the chair of anatomy, physiology, and hygiene having been established in that year. A curriculum covering the first two years of a standard four-year medical course was pro-

vided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### **Agreement With Medical College of Virginia**

Only the first two years of medicine are given at West Virginia University. There has been made an agreement with the Medical College of Virginia at Richmond for the transfer of as many as twenty students, residents of West Virginia, who have completed the first two years at West Virginia University. At the Medical College of Virginia these students pay the same tuition as paid by the residents of Virginia. Upon graduation, diplomas are issued jointly by the two schools. Other students in the class may, as in the past, transfer to various medical schools for the completion of their work.

### **Buildings and Equipment**

#### **THE MEDICAL BUILDING, LABORATORIES, AND CLASSROOMS**

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the Dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in separate buildings.

The biochemical laboratory occupies Room 401 of the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center: a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

#### **LIBRARY**

The Medical Library is not organized as a separate unit but is housed in the University Library Building, where publications of prime importance to the students and Faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building which is adjacent to the Library Building. Additional current issues

of essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 15,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with the pre-clinical fields for the most part but comprising also the better representative works in internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and the history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, the Library of Congress, or other libraries. Complete sets of various abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library, and a member of the Staff also represents the School of Medicine on the general Library Committee of the University.

### **Living Accommodations**

The University maintains three large dormitories, one for men and two for women. Cost of room and board in all dormitories ranges from \$432 to \$513 per academic year of 9 months. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Director of Residences and Commons, West Virginia University, Morgantown.

Medical students, in the main, must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For further information concerning houses on the approved list, men should address the office of Mr. H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University.

### **Cost of a Year's Work**

Textbooks and supplies will cost about \$75 to \$125 per academic year. Registration fees for residents are \$254; for non-residents, \$404 per academic year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month session for medical students in residence will range from \$800 to \$1,100, ex-

clusive of traveling expenses. The School of Medicine furnishes microscopes for students without charge.

### LOANS FOR MEDICAL STUDENTS

It frequently happens that students otherwise well qualified for the study of medicine are short of funds to defray the necessary expenses. For the assistance of such students there are available certain loans, some specifically for medical students, others available to students of all colleges in the University. For information about loans, inquiries should be made to Mr. Harry E. Stone, Secretary, Committee on Prizes, Scholarships, and Loan Funds, West Virginia University, Morgantown.

### The University Health Service

The University Health Service, organized as a division in the School of Medicine, provides medical service to all students in the University and supervises health conditions on the campus. Each regularly enrolled University student pays a fee which provides for medical consultation and advice from the University physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. The student's medical fee includes an insurance charge to provide hospitalization for acute illness not to exceed 30 days in a school year. Room charges up to \$5 daily and operating room fees are provided for, but professional fees arising out of such hospitalization are not included. All students receive a complete physical examination, including blood tests, urinalysis, and chest X-ray, during their first semester in the University. In addition the Health Service provides special examinations to students, to University food handlers, and to others, as may be required for University purposes. The University Pharmacy, operated by the College of Pharmacy, supplies prescribed medication at nominal charges.

The staff of the Health Service includes four physicians, three nurses, and two laboratory technicians. The Departments of Pathology and Bacteriology cooperate in various diagnostic laboratory procedures.

The Health Service occupies a well-designed University Health Center constructed in 1941. The three-story building, centrally located on the campus, fronting on College Avenue adjacent to Reynolds Hall, is a T-shaped structure of brick and concrete, with a front width of 88 feet and a depth of 68 feet.

On the first floor are the receiving room, the office of the secretary, offices for four physicians, a room for minor surgery, and a treatment room. One room on this floor is assigned to the University Pharmacy. On the second floor is the diagnostic laboratory equipped for serological, chemical, bacteriological, and hematological examinations. The X-ray unit, equipped for fluoroscopy and radiography, and with a photo-roentgen unit, is located in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor also are rooms occupied by the Department of Pathology of the School of Medicine. These include a student laboratory, pathological museum, preparation room, stock room, and the necessary offices and in-

dividual laboratories. The third floor is designed for the hospitalization of students. On the main corridor are rooms accommodating 16 hospital beds. In the rear wing, on a private corridor, are two isolation wards with seven beds for contagious diseases. This corridor has its own bath, toilet, diet kitchen, and utility room. The third floor also includes a room equipped for electrocardiography and basal metabolism testing, and a three-room suite designed as living quarters for nurses.

### **Clinical and Special Facilities**

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine.

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the Heiskell Memorial Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia County, the Department of Pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the Heiskell Memorial Hospital, the Monongalia General Hospital, and the Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

### **Seminar**

On alternate Friday afternoons at 4 o'clock there is held a seminar attended by Faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the Faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

### **Journal Club**

The Journal Club, organized by the Faculty of the School of Medicine, meets once each week during the Fall, Winter, and Spring terms. At each meeting a member presents for discussion a report of outstanding papers published in his field of interest. Students and Faculty are invited to attend and to join in the discussions.

### **Organizations and Lectureships**

#### **ALUMNI ASSOCIATION**

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

#### **JOHN NATHAN SIMPSON LECTURESHIP**

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, Dean Emeritus of the School of Medicine, giving an annual lecture by some one distinguished in medical research or practice.

### **REQUIREMENTS FOR ADMISSION**

The requirements for admission to the Medical School of West Virginia University conform to the standards of the Association of American Medical Colleges and the Council on Medical Education and Hospitals of the American Medical Association; however, they exceed the minimum standards of these associations.

All applications for admission are passed upon by the Committee on Admissions of the Medical School, composed of five members of the Medical Faculty. Admission is by recommendation of this Committee and with the approval of the Dean of the School.

The number of students that can be accommodated is strictly limited. In recent years the number of applicants has been so great that only residents of West Virginia could be considered, and of these only a small percentage could be admitted. Those admitted are the applicants who, in the judgment of the Committee on Admissions, are best qualified for the study of medicine, and who give highest promise of full service in the practice of medicine. Recently the number of applicants has been so great that the school could not accommodate all who were reasonably well qualified.

Men whose education was interrupted by service in the Armed Forces should consult the Medical School very early about their plans for completion of the required pre-medical studies.

Any applicant who is refused admission or who fails to enroll after acceptance, and who may wish consideration for a subsequent year, must re-apply in the regular manner.

### 1. Subject Requirements for Admission

To be eligible for admission, the applicant must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college. Credits submitted by applicants for work done elsewhere than in West Virginia University are evaluated by the Registrar of the University and must meet the general standards set by the University for acceptance of credits by transfer.

A detailed statement of subject requirements follows:

### Secondary-school Credits Required

For admission to the Medical School the applicant must have credit for at least 15 units of high-school work. This must include four units of English,\* two of mathematics (algebra, one, and plane geometry, one), and other subjects as specified in the general admission requirements of the University. The School of Medicine strongly urges two units of Latin.

### College Credits Required

The applicant must have credit for at least three years in a college of recognized standing. This credit must total at least 90 semester hours exclusive of military and physical education.

The council on Medical Education and Hospitals of the American Medical Association publishes a list of about seven hundred colleges which it approves for pre-medical education. Medical schools must give preference to applicants from the institutions on this list. Schools may accept students from other institutions only when they show evidence of superior ability, as indicated by adequate credits and superior grades. Students planning pre-medical work should consult the Medical School or other authentic source for information about approved colleges.

The following subjects and hours are the minimum requirements for admission. They must be met in full before enrollment in the Medical School.

English, composition and rhetoric ..... 6 hours

Biological Sciences ..... 12 hours

Should be mainly zoology and should include an advanced course in comparative anatomy of the vertebrates. Additional work is desirable and should include genetics and embryology. The following are not acceptable as part of the 12-hour requirement: human anatomy, histology or physiology, or medical bacteriology.

Chemistry ..... 20 hours

Must include one year of inorganic chemistry; 6 hours of qualitative and quantitative analysis; and 6 hours of organic chemistry (covering aliphatic and aromatic chemistry). Physical chemistry is desirable. Physiological chemistry is not acceptable as part of the required 20 hours.

Physics ..... 8 hours

Psychology ..... 3 hours

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\*Students who present only 3 units of English may satisfy this requirement by making a satisfactory grade on the English Placement Test, or by successfully completing English 1C, English Composition.



- A modern foreign language** ..... 12 hours  
 German or French preferred. Must be in one language. Two units in high school are accepted as 6 hours of the required 12 hours.
- Mathematics:** College algebra and trigonometry are strongly urged and should be taken early.
- Latin:** Either high-school or college Latin is strongly urged. It will be of great value.
- Other subjects:** The following are recommended as electives:  
 Art (drawing), botany, economics, geology, Greek, history, speech, political science, and sociology. The pre-medical student should secure a broad training, including adequate work outside the required scientific fields.

## 2. Scholarship

The quality of his premedical scholarship is the best single criterion of the probable success of the applicant in the study of medicine. For this reason applicants with high grades are given preference. Experience has shown that students with a premedical average of "C" or lower have only a small chance of doing acceptable work in medical school.

## 3. Medical Aptitude Test

The Association of American Medical Colleges sponsors an aptitude test, which is administered by the Educational Testing Service. It is given at convenient centers on announced dates. The Medical School will furnish this information on request. Students should make arrangements to take the test at another center if it is not given at the local college. Students desiring admission in September 1949 should take the test at the first opportunity (October 30, 1948) and should not wait for a later date. Students with good records in this test have better chance for admission than those with poor records or those who have not taken the test at all.

## 4. Residence

Preference is given to residents of West Virginia. For several years the resident applicants have been so numerous that there have been no places available for non-residents.

## 5. Personal Attributes

Careful consideration is given to those personal qualifications which have a bearing upon the fitness of the applicant for the study and practice of medicine. Students must be at least 18 years of age at the time of entrance to the Medical School. Persons who have been out of college for some years, or who are several years older than the average applicant, are admitted only when they show unmistakable evidence of superior ability and training.

## 6. Previous Failures

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Admissions considers such readmission justified.

## 7. How to Apply for Admission

Application for admission must be made upon blanks which may be obtained from the Dean's office upon request. A small unmounted photograph must accompany the application.

## 8. Credentials

Unless the applicant is a student at West Virginia University, he must ask the registrar of each college he has attended to send, directly to the Medical School, an official transcript of his work. (The University cannot accept transcripts sent by the applicant himself.) Records should include a statement of work in progress, and work subsequently completed should be promptly reported to the Medical School.

## 9. When to Apply for Admission

Application for September 1949 should be made during the summer of 1948, beginning as early as June, and credentials should be forwarded promptly. The early date is specified because much office work is necessary to prepare the many applications for study by the Committee. Applications will be considered until all places in the class are filled, but early applicants receive first consideration.

## 10. Date of Notification of Applicants

About December 1, the Committee will begin consideration of those applications for which full credentials, including the aptitude score, have been received and evaluated. Applicants will be notified of the action of the Committee as promptly as possible, whether favorable or otherwise.

## Advance Deposit Fee

When an applicant receives notice of acceptance, he must send to the Dean of the Medical School the advance deposit fee of \$25 if he wishes a place reserved for him. This amount will be applied to his tuition for the first term. If this fee is not received within the time designated, the place will be considered open to other applicants. Checks should be made payable to West Virginia University. If the applicant fails to enter the School of Medicine, this deposit is forfeited. The deposit paid by students who are under the G. I. Bill of Rights will be refunded after the full tuition has been paid.

# REGISTRATION

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each semester as announced in the calendar on page 3 of this Bulletin.

No student will be permitted to register in the School of Medicine after the first week of classes.

## Departure from Scheduled Work

Students must register for all the prescribed courses for each semester except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## Immunization

The School of Medicine requires that during the first semester of the first year all medical students must complete certain prescribed immunizations and diagnostic procedures. These are administered without charge by the University Health Service.

## FEES

All fees are due and payable at the office of the Comptroller on the day of registration.<sup>1</sup> Students registering in the School of Medicine pay the following:

### Advance Deposit Fee

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list of registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first term. If the applicant fails to enter the School of Medicine this deposit fee is forfeited by the applicant. The deposit paid by students under the G. I. Bill of Rights will be refunded after the full tuition has been paid.

### Tuition and Other Fees

	Residents <sup>2</sup>	Non-Residents <sup>3</sup>
Full-time students <sup>2</sup> (per semester) Tuition .....	\$ 87.00	\$ 162.00
University Fees .....	40.00	40.00
<b>Total</b> .....	<b>\$ 127.00</b>	<b>\$ 202.00</b>
Part-time students (per semester hour) <sup>2</sup> .....	8.00	12.50

### SPECIAL FEES

Late registration <sup>4</sup> .....	\$ 2.00
Diploma fee <sup>5</sup> .....	10.00
Student's record fee <sup>6</sup> .....	1.00

<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the Registrar shall notify their instructors that their class cards are to be withdrawn.

<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during a term. A part-time student is one who is registered for fewer than 10 semester hours per term.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicile in this State, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>4</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 3.

<sup>5</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>6</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

Breakage deposit ..... 10.00

Breakage deposit for university students not regularly enrolled in the Medical School, for one laboratory course, \$5, and for more than one course, \$10.

Special fee for students not regularly enrolled in the School of Medicine or the College of Pharmacy, \$4 per credit hour in addition to the fee charged in the college or school in which they are registered.

### REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University.

	Amount of Refund
During the first and second weeks .....	All fees less \$3.00
During the third and fourth weeks .....	80% of fees
During the fifth and sixth weeks .....	60% of fees
During the seventh and eighth weeks .....	40% of fees
Beginning with ninth week .....	No refunds allowed

## STANDARDS OF SCHOLARSHIP

### Grading and Honor Points

- A—excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above the average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—condition<sup>1</sup>
- F—failure
- FIW—failure because of irregular withdrawal
- I—incomplete<sup>2</sup>

In computing average grades of applicants, and of medical students in relation to promotions and suspensions, the values of grades are expressed in numerical points as follows: A—3 points per semester hour; B—2; C—1; D—0; E—minus 1; F—minus 2. These values are applied to all courses for which the student has registered (military and physical education excepted) in all institutions attended. When grades are expressed in a system different from the one used at West Virginia University, the values are adjusted to give an equivalent measure of accomplishment.

<sup>1</sup>A mark of "E" not removed within the following semester becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a "C" shall be recorded for the removal of a condition.

<sup>2</sup>If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

### **Removal of Conditions**

Examinations for the removal of conditions incurred during the first semester will be held during the week following Easter vacation. Examinations for conditions incurred during the second semester of the first year will be held during the first day of registration in September, in order that eligibility of students to enter the second year may be determined.

Examinations for the removal of conditions incurred during the second semester of the second year will be held at dates determined by agreement between the instructor concerned and the Scholarship Committee.

Before these dates, students who wish to take the examinations should make application to the professor concerned.

### **Promotions and Suspensions**

The Committee on Scholarship of the School of Medicine is responsible for the administration of the following rules. Exceptions may be made only on the recommendation of this Committee. The application of rules on suspension is not automatically changed by removal of conditions or by the repetition of courses in other medical schools. Permission for repetition of the work in this Medical School may be granted only by the Scholarship Committee.

1. Students must register for all the courses scheduled for each semester.
2. A student who does not make passing grades in at least half of the registration hours in any semester is automatically suspended from the school.
3. A student who during any two consecutive semesters does not attain an honor-point average of 0.5 for all the courses for which he is registered, is thereby automatically suspended even though he may pass in all the courses. (For honor point values in the Medical School, see page 18.)
4. No student will be permitted to register for the work of the second year until all courses for the first year have been successfully completed.

### **Withdrawals**

A student who wishes to withdraw during the term should do so in regular manner. Consult the Dean's office for the steps which must be taken.

### **DEGREES**

The School of Medicine gives no degree in medicine, except in cooperation with the Medical College of Virginia, as noted on page 9. Upon completion of the second year in the School of Medicine, students receive the Bachelor of Science degree. At the end of the first year, those students who have met certain requirements of the College of Arts and Sciences in West Virginia University receive the Bachelor of Arts degree. The Master of Science degree is offered to graduate students in the departments of Bacteriology, Biochemistry, and Physiology. For full information, consult the *Bulletin* of the Graduate School and the department concerned.

## PRE-MEDICAL CURRICULA

In keeping with the need for good pre-medical training, West Virginia University, through its pre-medical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia University to give special pre-medical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude in choice of electives in other departments, so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Another pre-medical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B.S. degree in pharmacy. For information concerning this course, inquiries should be addressed to the Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.

## THE DAY-AND-HOUR SCHEDULE

### First Year — First Semester

	8	9	10	11	12	1	2	3	4	5
M	Biochemistry						Histology			
T	Anatomy						Histology			
W	Biochemistry						Anatomy			
Th	Anatomy			Biochem.			Histology			
F	Biochemistry						Histology			
S										

### First Year — Second Semester

	8	9	10	11	12	1	2	3	4	5
M	Neuro-anatomy						Bacteriology			
T	Embry.	Anatomy		N. Anatomy			Physiology			
W	Neuro-anatomy			Physiol.			Bacteriology			
Th	Embry.	Anatomy					Bacteriology			
F	Anatomy			Physiol.			Bacteriology			
S										

**THE DAY-AND-HOUR SCHEDULE****Second Year — First Semester**

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Physiol.	Medicine				Pathology			
T	Pathology			Physiol			Physiology			
W	Pathology		Hygiene	Physiol			Pathology			
Th	Pharm.	Physiol	Psychob or Biostat. (Alt.)				Physiology			
F	Pharm	P. Diag	Hygiene	Physiol			Pathology			

**Second Year — Second Semester, First Half**

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Cl. Path.	Obstet.	Phy. Diag.			Pharmacology			
T	Pharm.	Med.	Hist. Med.	Surgery			Applied Anatomy			
W	Med.	Pharm.	Clinical Pathology				Pharmacology			
Th	Pharm.	Cl. Path.	Obstet.	Surgery			Applied Anatomy			
F	Phys. Diag.		Clinical Pathology				Pathology			
S										

**Second Year — Second Semester, Second Half**

	8	9	10	11	12	1	2	3	4	5
M	Med. or Surg.		Cl. Path.	Obstet.			Pathology		Hist. Med.	Anesth.
T	Med. or Surg.		Pharm.	Surgery			Chn. Path			
W	Med.	Ph. Diag.	Pathology				Pharmacology			
Th	Med.	Phys. Diag.	Pharm.	Surgery			Clin. Path.			
F	Ph. Diag.		Pharm.	Obstet.			Clinical Pathology			
S										

## THE SCHEDULE OF COURSES FOR 1948-49

	Hrs. per week			Hrs. per semester			Semester Hours	Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total		
First Year — First Semester								
Gross Anatomy 201 .....	2	8	10	32	128	160	6	
Histology 211 .....	3	9	12	48	144	192	6	
Biochemistry 231 .....	4	9	13	64	144	208	7	
First Year — Second Semester								
Gross Anatomy 202 .....	2	6	8	32	96	128	4	
Neuro-Anatomy 203 .....	2	6	8	32	96	128	4	
Embryology 212 .....	2	0	2	32	0	32	2	
Medical Bacteriology 221 .....	3	9	12	48	144	192	6	
Physiology 242 .....	2	3	5	32	48	80	3	
Second Year — First Semester								
Physiology 243 .....	5	6	11	80	96	176	7	
Gen. and Tumor Pathology 251 .....	5	9	14	80	144	224	7	
Pharmacodynamics 262 .....	3	0	3	48	0	48	3	
Hygiene 222 .....	2	0	2	32	0	32	2	
Introductory Medicine 272 ..	0	2	2	0	32	32	*	
Psychobiology 273 .....	1	0	1	16	0	16	1	
Biostatistics 274 .....	1	0	1	16	0	16	1	
Physical Diagnosis 271 .....	1	0	1	16	0	16	*	
Second Year — Second Semester, First Half								
Applied Anatomy 204 .....	2	4	6	16	32	48	2**	
Clinical Pathology 254 .....	2	4	6	16	32	48	***	
Special Pathology 252 .....	1	2	3	8	16	24	***	
Medical Pharmacology 263 ..	4	6	10	32	48	80	***	
Obstetrics 291 .....	2	0	2	16	0	16	***	
History of Medicine 275 .....	1	0	1	8	0	8	0	
Physical Diagnosis 271 .....	1	2	3	8	16	24	***	
Introductory Medicine 272 ...	2	0	2	16	0	16	***	
Surgery, Principles of 281 ...	2	0	2	16	0	16	***	
Second Year — Second Semester, Second Half								
Special Pathology 252 .....	2	2	4	16	16	32	2	
Clinical Pathology 254 .....	3	7	10	24	56	80	3	
Medical Pharmacology 263 ...	3	3	6	24	24	48	4	
Clinical Anesthesiology 264 ..	1	0	1	8	0	8	0	
Obstetrics 291 .....	2	0	2	16	0	16	2	
Physical Diagnosis 271 .....	2	2	4	16	16	32	3	
Introductory Medicine 272 ...	2	2	4	16	16	32	3	
History of Medicine 275 .....	1	0	1	4	0	4	0	
Surgery, Principles of 281 .....	2	2	4	16	16	32	2	

\*Course continues throughout the year.

\*\*Course completed at mid-semester.

\*\*\*Course continues throughout the semester.



## THE COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 1 to 99—courses primarily for freshmen and sophomores.

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester.

II—a course offered during the second semester.

I, II—a semester course offered each semester.

Yr.—a continuous course extending through two semesters.

Hrs.—Number of semester hours credit per course.

NOTE—Courses marked "1" are required of first-year students; those marked "2" are required of second-year students.

In addition to the required courses there are listed some elective courses for the benefit of other University students who may need them. They are given only when, in the opinion of the department concerned and of the Dean, it is considered advisable. If there should arise a demand for any of these courses, the Medical School will try to meet the need, but the schedule will be contingent upon the extent to which staff members are occupied with the required medical courses.

### Gross Anatomy and Neuro-anatomy

Professor CHANDLER; Associate Professor WILLIAMS; Instructor COMBS;  
Assistant HESS

- 201.<sup>1</sup> Gross Anatomy. I. 6 Hrs. Lecture, 2 hours per week; laboratory, 8 hours.
- 202.<sup>1</sup> Gross Anatomy. II. 4 Hrs. Continuation of Anatomy 201. Lecture, 2 hours per week; laboratory, 6 hours.
- 203.<sup>1</sup> Neuro-anatomy. II. 4 Hrs. Lecture, 2 hours per week; laboratory, 6 hours.
- 204.<sup>2</sup> Applied Anatomy. II. 2 Hrs. Lecture, 2 hours per week; laboratory, 4 hours during first half of semester.
- 206. Anatomy of the Sympathetic Nervous System. I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.
- 207. Applied Anatomy of the Pelvis and Perineum. I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.
- 301. Advanced Anatomy. I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Histology and Embryology

Professor DODDS; Associate Professor WILLIAMS

- 211.<sup>1</sup> Histology. I. 6 Hrs. Histological structure and elementary embryology of tissues and organs. Lecture, 3 hours per week; laboratory, 9 hours.
- 212.<sup>1</sup> Human Embryology. II. 2 Hrs. Comprehensive survey of human development in relation to gross and microscopic structure. Lecture, 2 hours per week.

216. **The Histology and Development of the Skeletal System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature.
217. **Advanced Embryology.** I or II. 2-5 Hrs. Topics to be chosen to meet special needs of students. Hours to be arranged. Open to properly qualified students.
311. **Research in Microscopy or Developmental Anatomy.** I or II or Yr. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

### Bacteriology and Public Hygiene

Associate Professor SLACK; Assistant Professor LUDWIG

220. **Pathogenic Bacteriology.** I. 5 Hrs. Required of students in pharmacy and medical technology. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours.
- 221.<sup>1</sup> **Medical Bacteriology.** II. 6 Hrs. Lecture, 3 hours per week; laboratory, 9 hours.
- 222.<sup>2</sup> **Public Hygiene.** I. 2 Hrs. Lecture, 2 hours per week.
226. **Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students.
321. **Research in Bacteriology.** I or II. 2-5 Hrs. PR: Bacteriology 221 or equivalent.

### Biochemistry

Professor MACLACHLAN; Assistants GILMORE and MATTHEWS

- 139 or 239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of plants and animals with special reference to man. PR: Inorganic and organic chemistry. Quantitative analysis desirable. Lecture, 3 hours per week; laboratory, 5 hours. Graduate students required to do one hour additional work per week for 4 hours' credit.
- 231.<sup>1</sup> **Biochemistry.** I. 7 Hrs. Lecture, 4 hours per week; laboratory, 9 hours.
236. **Advanced Biochemistry.** I or II. 2-5 Hrs. With special emphasis on biochemical methods. Hours to be arranged. Open to properly qualified students.
237. **Seminar in Biochemistry.** Yr. 2 Hrs. Presentation and discussion of special topics in biochemistry. Hours to be arranged. PR or concurrent: Biochemistry 231.
331. **Research in Biochemistry.** I or II or Yr. 2-5 Hrs. Open to properly qualified students.

### Physiology

Professor VAN LIERE; Associate Professor NORTHUP; Assistant Professor STICKNEY

141. **Elementary Physiology.** II. 4 Hrs. For students in Pharmacy and Medical Technology. Lecture, 3 hours per week; laboratory, 3 hours.
- 242.<sup>1</sup> **Physiology.** II. 3 Hrs. Physiology of muscle and nervous system. Lecture, 2 hours per week; laboratory, 3 hours.
- 243.<sup>2</sup> **Physiology.** I. 7 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours.
246. **Seminar in Physiology.** Yr. No credit.

247. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged.
248. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Hours to be arranged.
249. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged.
341. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the master of science degree.

### Pathology

Professor HOBBS; Assistant Professor STRAUB

151. **Clinical Laboratory Diagnostic Methods.** II. 4 Hrs. Study of blood, exudates, transudates, gastric contents, urine, etc. Lecture, 2 hours per week; laboratory, 6 hours. Required of students in Medical Technology.
- 251.<sup>2</sup> **General and Tumor Pathology.** I. 7 Hrs. Includes both gross and microscopic studies with demonstrations. Lecture, 4 hours per week; laboratory, 10 hours.
- 252.<sup>2</sup> **Special Pathology.** II. 2 Hrs. A study of special diseases with gross and microscopic specimens from selected autopsies. Lecture, 1 hour, laboratory, 2 hours per week during first half of semester; lecture, 2 hours per week; laboratory, 2 hours during second half of semester.
- 254.<sup>2</sup> **Clinical Pathology.** II. 3 Hrs. A laboratory course in blood, gastric contents, urine, etc., and their pathological and clinical significance. Lecture, 2 hours per week; laboratory, 4 hours during first half of semester; lecture, 3 hours per week; laboratory, 7 hours during second half of semester.
256. **Advanced Pathology.** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 251.
351. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students

### Pharmacology

Professor MARSH; Instructor ROSS; Assistant HERRING; Lecturers TUCKER and HAYMAN

- 262.<sup>2</sup> **Pharmacodynamics.** I. 3 Hrs. Lecture, 3 hours per week.
- 263.<sup>2</sup> **Medical Pharmacology.** II. 4 Hrs. Lecture, 4 hours per week, laboratory, 6 hours, first half of semester; lecture, 3 hours per week, laboratory, 3 hours, second half of semester.
- 264.<sup>2</sup> **Clinical Anesthesiology.** II. No credit. Practical demonstrations of anesthesia to be arranged. 1 hour per week, second half of semester.
266. **Biochemorphanology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 262, or Chemistry 238 or 277.
267. **Bioassay and Comparative Pharmacology.** I or II. 3 Hrs. Lecture and demonstrations, 2 hours per week; laboratory, 3 hours. Cellular pharmacodynamics and comparative mammalian pharmacology. PR: Pharmacology 262; or Chemistry 238 or 277 and Histology 211; or Pharmacy 110
268. **Advanced Pharmacology.** I or II. 2-5 Hrs. Hours to be arranged. Rational investigation of new drugs.
269. **Anesthesiology.** II. 3 Hrs. Lecture, 2 hours per week; laboratory, 3 hours. PR: Physiology 242.

361. **Research in Pharmacology.** I or II. 2-5 Hrs. Hours to be arranged. PR: Graduate status in physiology, chemistry, or agriculture.

### Medicine

Associate Professors LAWLESS and SLEETH; Assistant Professors MAXWELL, WHITTLESEY, SALKIN; Instructors JOHNSON, STARKEY, TEITELBAUM, and GADZIKOWSKI

- 271.<sup>2</sup> **Physical Diagnosis.** Yr. 3 Hrs. Lecture, 1 hour per week during first semester; lecture, 1 hour per week, laboratory, 2 hours during first half of second semester; lecture, 2 hours per week, practical work with patients, 2 hours during second half of second semester. Hospital clerkship at Hopemont Sanitarium, 1 week.
- 272.<sup>2</sup> **Introductory Medicine.** Yr. 3 Hrs. Medical clinic—demonstration of clinical cases, 2 hours per week during first semester; lecture, 1 hour per week during first half of second semester; lecture, 2 hours, demonstration of clinical cases, 2 hours per week during second half of second semester. Hospital clerkship at Hopemont Sanitarium, 1 week.
- 273.<sup>2</sup> **Psychobiology.** I. 1 Hr. Introduction to the study of human personality, normal and abnormal. Lecture, 1 hour per week.
- 274.<sup>2</sup> **Biostatistics.** I. 1 Hr. Planned to aid in the understanding of the statistical methods commonly used in medical and biological work, and in the evaluation of experimental data in these fields. Lecture, 1 hour per week.

### History of Medicine

Professor CHANDLER

- 275.<sup>2</sup> **History of Medicine.** II. No credit. A brief history of the development of the science and art of medicine. Lecture, 1 hour per week.

### Introductory Surgery

Associate Professor PRIDE

- 281.<sup>2</sup> **Principles of Surgery.** II. 2 Hrs. Lecture, 2 hours per week during first half of semester; lecture, 2 hours per week during second half of semester, demonstrations of clinical cases and operative technique, 2 hours.

### Obstetrics

Professor VAN LIERE

- 291.<sup>2</sup> **Obstetrics.** I. 2 Hrs. An introductory course in obstetrics. Lecture, 2 hours per week.

## THE LIST OF STUDENTS 1947-48

## First-year Students (Entered September 15, 1947)

Bell, Ross Oliver, Jr. ....	Morgantown
A.B., West Virginia University, 1947	
Boggs, Charles Harmon, Jr. ....	Franklin
Boone, Ralph Harold ....	Elm Grove
Bos, John Fremont ....	Buckhannon
Brown, James David ....	Craigsville
Burner, Ralph Burton ....	Buckhannon
B.S., Alderson-Broadbush College, 1941	
Clark, David Sheffer ....	Huntington
B.S., Marshall College, 1947	
Cowell, William Englehart ....	Morgantown
Coyner, Martha Jane ....	Buckhannon
B.S., West Virginia University, 1942	
Davis, Merle Burton ....	Fairmont
B.S., West Virginia University, 1947	
Freeman, Emma Jane ....	Adrian
A.B., West Virginia University, 1947	
French, John David ....	Bluefield
Godfrey, Harold Gilbert ....	Parkersburg
Hacskaylo, Edward ....	Valley Grove
Hicks, Clarence Edwin ....	Spring Hill
Irvine, William Dane ....	Lewisburg
Jones, Edward Paul ....	Elkins
Jones, Jerry Michael ....	Charleston
McHugh, Elmer Francis ....	Morgantown
A.B., West Virginia University, 1947	
Marra, Erma Jean ....	Morgantown
Neal, Joseph Guthrie ....	Huntington
B.S., Marshall College, 1947	
Oliphant, Wilmer Grey ....	Mount Hope
A.B., West Virginia University, 1947	
Orndorff, James Arlus ....	Hominy Falls
A.B., West Virginia University, 1943	
Roles, Earl Elmore ....	Lillybrook
A.B., West Virginia University, 1947	
Schnabel, Robert Frederick ....	Huntington
Shutts, Paul Eugene ....	Vienna
B.S. Pharmacy, West Virginia University, 1944	
Simmons, Leslie Dale ....	Clarksburg
B.S. Pharmacy, West Virginia University, 1943	
Simon, Philip ....	Charleston
Valentine, Albert Martin ....	Morgantown
Willis, Robert Frederick ....	East Bank
Wotring, James Earl ....	Morgantown

**Second-year Students (Entered September 16, 1946)**

Ayres, Thomas William	Richwood
Bush, Ivan Hays, Jr.	Reedy
A.B., Glenville State Teachers College, 1934; M.S., W. Va. University, 1936	
Clark, Kenneth Lawrence	Charleston
Connolly, Ira, Jr.	Parkersburg
A.B., Ohio University, 1946	
Coogle, John Jenkins	Rivesville
A.B., Fairmont State Teachers College, 1941	
Cowan, Robert Calton, Jr.	Morgantown
A.B., West Virginia University, 1946	
Crabtree, William Vickers	Wellsburg
A.B., West Virginia University, 1947	
Ferrara, Richard	Morgantown
A.B., West Virginia University, 1946	
Foley, John Morgan	Fairmont
Gamsjager, Dorsey Carlyle	Grafton
A.B., West Virginia University, 1946	
Garrett, Charles Melvin, Jr.	Weston
A.B., West Virginia University, 1947	
Gover, Janis	Charleston
A.B., West Virginia University, 1945	
Hampton, Florine Kirk	Kermit
A.B., West Virginia University, 1947	
Hesen, John William, Jr.	Morgantown
A.B., West Virginia University, 1933; M.S., W.V.U., 1934	
Hess, Helen Hope	Morgantown
A.B., West Virginia University, 1946	
McMullen, Jane	Wellsburg
B.S., Bethany College, 1946	
Martin, Homer Delmar	Montrose
A.B., West Virginia University, 1940	
Maust, Paul Edison	Morgantown
B.S., West Virginia University, 1943	
Pasquale, Andrew James	Williamson
A.B., West Virginia University, 1946	
Royer, Thomas Carroll	Morgantown
B.S., Loyola College, 1945	
Shaffer, Lee W., Jr.	Morgantown
Sherman, Leo F.	Beckiey
B.S., Bethany College, 1943	
Smith, Joseph A.	Sutton
Zumbrunnen, Mary E.	Huntington
B.S., West Virginia Wesleyan College, 1945	

**WEST VIRGINIA UNIVERSITY**  
**THE SCHOOL OF MEDICINE**  
**THE CURRICULUM IN MEDICAL TECHNOLOGY**

**General Information**

The curriculum in Medical Technology leads to the degree of Bachelor of Science (Medical Technology). This curriculum prepares students to serve as technicians in hospitals, clinics, research laboratories, etc., and in offices of private physicians.

Training standards for laboratory technicians are under the general supervision of the Council on Medical Education and Hospitals of the American Medical Association, which inspects, evaluates, and approves schools. This school is included in the list of those approved by the American Medical Association. In this field, properly qualified persons, upon passing the required examinations, may be certified by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

During the first two years the student is registered in the College of Arts and Sciences and is under the supervision of the pre-medical adviser. These two years are considered as a preliminary training.

The third and fourth years include the specialized and technical training of the curriculum. During these years the student is under the jurisdiction of the School of Medicine. But these students are not to be regarded as medical students, nor can any course taken during these years be counted toward the M. D. degree.

The work of the last year is largely individual in nature, carried on in laboratories and hospitals. The students are considered as temporary members of the laboratory staff and are subject to the usual staff regulations and discipline of the regular staff.

**Requirements for Admission**

- (a) The admission requirements for the first year (pretechnology) are the same as for the College of Arts and Sciences, namely, 15 units of high-school work, including the subjects specified in the University Catalogue.
- (b) For admission to the third year, students must complete the first two years of the curriculum outlined below in West Virginia University, or an equivalent program in other institutions of recognized standing.
- (c) Only a limited number of students can be accommodated in the third and fourth years. Preference is given to residents of West Virginia. Application should be made on forms obtainable from the School of Medicine and must be presented at the office of the dean of the school. Applications should be made in March or April and will be considered after the first of April. Admission is on the recommendation of the Committee on Medical Technology and with the approval of the Dean of the Medical School.

### **Immunization**

The School of Medicine requires that during the first semester of the first year all students in Medical Technology must complete certain prescribed immunizations and diagnostic procedures. These are administered without charge by the University Health Service.

### **Standards of Scholarship**

The administration of scholarship standards is in charge of the Committee on Medical Technology. The following rules apply:

A student who does not make passing grades in at least half of the registration hours during any semester is automatically suspended. (General University rule)

Eligibility to begin the work of the fourth year is contingent upon the demonstration of personal aptitude for this work and upon full completion of the curriculum of the third year with an honor-point average of 0.5 per registration hour. (Honor-point values: A-3 points; B-2; C-1; D-0; E-minus 1; F-minus 2 per registration hour.)

### **Requirements for the Degree**

The degree, Bachelor of Science (Medical Technology), will be given upon completion of the curriculum outlined below.

### **Fees**

For the first two years, students pay the regular fees charged in the College of Arts and Sciences. In the last two years, while students are under the jurisdiction of the School of Medicine, there is an additional tuition fee of \$25 per semester. There is a breakage deposit of \$10 per year.

### **Committee on Medical Technology**

M. L. HOBBS (Professor of Pathology and Clinical Pathology), *Chairman*.

G. S. DOBBS (Chairman of Committee on Entrance and Scholarship).

DAVID SALKIN (Superintendent of Hopemont Sanitarium and Assistant Professor of Medicine W. V. U.).

JOHN M. SLACK (Associate Professor of Bacteriology and Public Hygiene).

P. L. MACLACHLAN (Professor of Biochemistry).

E. J. VAN LIERE (Dean of Medical School).



## THE CURRICULUM

During the first two years the student is registered in the College of Arts and Sciences.

### First Year (pretechnology)

<i>First Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>	<i>Second Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>
Inorganic chemistry -----	3	4	Inorganic chemistry ----	4	4
General zoology -----	1	4	General zoology -----	2	4
English composition -----	1	3	English composition -----	2	3
Modern foreign language--		3	Modern foreign language -		3
Electives -----		2	Electives -----		2
Physical education -----		1	Physical education -----		1

### Second Year (pretechnology)

<i>First Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>	<i>Second Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>
Qualitative analysis -----	5	4	Quantitative analysis ----	15	3
English literature -----		3	English literature -----		3
Modern foreign language -		3	Modern foreign language -		3
General physics -----1-3		4	General physics ----- 2-4		4
Electives -----		2	Electives -----		2
Physical education -----		1	Physical education -----		1

**NOTE:** In addition to the courses listed above, male students must take military science to meet the University requirements.

### Third Year

During the third and fourth years the student is under the jurisdiction of the School of Medicine. This part of the curriculum is open only to students approved by the Committee on Medical Technology.

<i>First Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>	<i>Second Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>
Pathogenic bacteriology --	220	5	Elementary physiology -	141	4
Organic chemistry -----	131	4	General biochemistry ---	139	4
Comparative anatomy ---	231	5	Parasitology -----	120	4
Electives -----		4	Clinical laboratory diagnostic methods ---	151	4
			Electives -----	2 or 3	

### Fourth Year

The following courses comprise the work of the fourth year in the curriculum leading to the Bachelor of Science degree (Medical Technology). The work is largely individual in nature and consists mainly of practical experience under careful supervision in Laboratories and Hospitals. At present, training in these subjects is given at West Virginia University, the State Hygienic Laboratory, the Charleston General Hospital, and Hopemont Sanitarium. The work of the fourth year covers a whole calendar year of 12 months.

## Professional Courses Required of Fourth-Year Students

### Course

No.	Description of Courses
101.	<b>Applied Bacteriology.</b> Yr. 4 Hrs. Methods of sterilization, preparation of culture media and vaccines, staining and study of bacteria, etc.
102.	<b>Applied Parasitology.</b> Yr. 2 Hrs. Examination of feces for parasites and ova and of blood smears for parasites of the blood.
103.	<b>Applied Serology.</b> Yr. 4 Hrs. Agglutination, precipitation, and complement fixation tests in serodiagnosis of syphilis and other diseases.
104.	<b>Clinical Chemistry.</b> Yr. 3 Hrs. Chemical examination of urine, blood, gastric contents, and spinal fluid for abnormal constituents and increased or decreased amounts of normal constituents.
105.	<b>Electrocardiography.</b> Yr. 2 Hrs. Study of the electrocardiographic machine and its practical employment on patients.
106.	<b>Metabolimetry.</b> Yr. 2 Hrs. Study of the metabolism of carbohydrates, proteins, fats, minerals, etc., and the technique of basal metabolism.
107.	<b>Microtechnique.</b> Yr. 3 Hrs. Histological technique including paraffin, celloidin, and frozen sections with routine and special staining procedures.
108.	<b>Normal Hematology.</b> Yr. 4 Hrs. Methods of obtaining blood, hemoglobin determinations, enumeration of erythrocytes, leucocytes, and blood platelets; study of stained blood films, etc.
109.	<b>Special Hematology.</b> Yr. 3 Hrs. Study of blood dyscracias, hemorrhagic diseases, blood groups, etc.
110.	<b>Record Keeping.</b> Yr. 2 Hrs. Study of laboratory and hospital forms with proper methods of recording findings and filing laboratory reports.
111.	<b>Urine Analysis.</b> Yr. 5 Hrs. Clinical examination of normal and abnormal urines including general characteristics, qualitative and quantitative chemical analyses, microscopic studies, renal-function tests, etc.

## STUDENTS IN MEDICAL TECHNOLOGY

### Third Year

Carper, Mary Virginia	Sutton
Cipolloni, Janie	Masontown
Dennison, Patricia Anne	Morgantown
Leahy, Mary Ellen	Mannington
Plesa, Anna Margaret	Holiday's Cove
Scott, Carolyn Jane	Parkersburg
Witt, Lu Ellen	Fairmont

### Fourth Year

Hupp, Lois Lyon	Fairmont
Lowther, Margaret Anne	Clarksburg
Salvati, Mary Elizabeth	Holden
Shelton, Letha Agnes	Swiss
Watkins, Betty Jane	Buckhannon

### Special Students

Stump, Lela Virginia	Romney
Wells, Ruth Ashenfelter	Keyser

*consider for this*

# **West Virginia University Bulletin**

Series 49, No. 11-III

May 1949

## **CATALOGUE THE SCHOOL OF MEDICINE THE 1948-49 SESSION**

**The Curriculum in Medicine  
The Curriculum in Medical Technology**



## **ANNOUNCEMENTS OF THE 1949-50 SESSION**

**MORGANTOWN, WEST VIRGINIA**

Published by the University

Entered as second-class matter, July 15, 1929, at the post office at  
Morgantown, West Virginia, under the Act of August 24, 1912  
Issued Monthly

# Year 1949

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						<b>1</b>			<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>			<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>					<b>1</b>	<b>2</b>		
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<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	
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<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	
<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>		<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>				<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	
							<b>30</b>	<b>31</b>																				

# Year 1950

JANUARY							FEBRUARY							MARCH							APRIL						
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<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>			<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>				<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>
<b>29</b>	<b>30</b>	<b>31</b>					<b>26</b>	<b>27</b>	<b>28</b>					<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>		<b>30</b>						
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>				<b>1</b>	<b>2</b>	<b>3</b>							<b>1</b>		<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
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						<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>			<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
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The days on which the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type.

# The University Calendar

1949

May 28, Saturday ----- Alumni Day  
May 29, Sunday ----- Baccalaureate Exercises  
May 30, Monday ----- Commencement Day  
June 6, Monday ----- Registration for first term, Summer Session  
June 7, Tuesday ----- First recitations, first term, Summer Session  
July 4, Monday ----- Independence Day, a holiday  
July 15, Friday ----- Close of first term, Summer Session  
July 18, Monday ----- Registration for second term, Summer Session  
July 19, Tuesday ----- First recitations, second term, Summer Session  
August 26, Friday ----- Close of Summer Session  
September 15, Thursday, to September 20, Tuesday --- Freshman Week Program  
September 16 and 17, Friday and Saturday ----- Registration of Freshmen  
September 19 and 20, Monday and Tuesday ----- Registration for first semester  
September 21, Wednesday ----- First recitations, first semester  
October 11, Tuesday ----- Meeting of University Senate  
November 14, Monday ----- Midsemester reports due  
November 23, Wednesday, to November 27, Sunday, inclusive  
Thanksgiving recess  
December 21, Wednesday, to January 3, Tuesday, inclusive-Christmas recess

1950

January 21, Saturday, to January 28, Saturday, inclusive  
Final examinations for first semester  
January 31 and February 1, Tuesday and Wednesday  
Registration for second semester  
February 2, Thursday ----- First recitations, second semester  
February 14, Tuesday ----- Meeting of University Senate  
March 27, Monday ----- Midsemester reports due  
April 6, Thursday, to April 12, Wednesday, inclusive ----- Easter recess  
May 9, Tuesday ----- Meeting of University Senate  
May 25, Thursday, to June 2, Friday  
Final examinations for second semester  
May 30, Tuesday ----- Memorial Day, a holiday  
June 3, Saturday ----- Alumni Day  
June 4, Sunday ----- Baccalaureate Exercises  
June 5, Monday ----- Commencement Day

# West Virginia University

Morgantown

Established February 7, 1867

## The Board of Governors

	TERM EXPIRES
A. C. SPURR, PRESIDENT, <i>Fairmont</i> .....	1952
THOMAS L. HARRIS, VICE-PRESIDENT, <i>Parkersburg</i> .....	1951
MRS. GEORGE D. HILL, <i>Camden-on-Gauley</i> .....	1949
E. G. OTEY, <i>Bluefield</i> .....	1950
K. DOUGLAS BOWERS, <i>Beckley</i> .....	1953
CHARLES E. HODGES, <i>Charleston</i> .....	1954
WILLIAM G. THOMPSON, <i>Montgomery</i> .....	1955
RAYMOND E. SALVATI, <i>Huntington</i> .....	1956
THOMAS E. MILLSOP, <i>Weirton</i> .....	1957
IRVIN STEWART, CHIEF EXECUTIVE OFFICER, <i>Morgantown</i>	
CHARLES T. NEFF, JR., EXECUTIVE SECRETARY, <i>Morgantown</i>	

The Board of Governors has charge of the educational, administrative, financial, and business affairs of the University and of Potomac State School of West Virginia University.

PRESS OF  
MORGANTOWN PRINTING AND BINDING COMPANY  
MORGANTOWN, WEST VIRGINIA



# The School of Medicine

## ADMINISTRATION

IRVIN STEWART, LL.B., A.B., A.M., Ph.D., LL.D., *President of the University*  
CHARLES THOMPSON NEFF, JR., A.B., LL.D., *Vice-president of the University*  
EDNA ARNOLD, M.A., *Dean of Women*  
JOSEPH CLAY GLUCK, B.A., B.D., *Director of Student Affairs*  
ELMER M. GRIEDER, M.A., B.S. in L.S., *Librarian*  
J. EVERETT LONG, M.A., *Registrar*  
ERNIE BEVAN MCCUE, A.B., A.M., *Acting Director of University Extension*  
EDWARD JERALD VAN LIERE, *Dean and Professor of Physiology*  
B.A., M.S., M.D., Ph.D., Litt.D., F.A.C.P.

## THE FACULTY

### Professors

EDWARD JERALD VAN LIERE, *Professor of Physiology and Dean*  
B.A., M.S., University of Wisconsin, 1915, 1916; M.D., Harvard University, 1920;  
Ph.D., University of Chicago, 1927; Litt.D., Medical College of Virginia,  
1948; F.A.C.P.  
GIDEON STANHOPE DODDS, *Professor of Histology and Embryology, and Chairman of*  
*Committee on Admissions and Scholarship*  
B.A., M.A., University of Colorado, 1904, 1905; Ph.D., University of Pennsyl-  
vania, 1910.  
ROBB SPAULDING SPRAY, *Professor Emeritus of Bacteriology and Public Hygiene*  
B.S., Purdue University, 1914; M.S., Pennsylvania State College, 1917; Ph.D.,  
University of Chicago, 1923.  
SIMON B. CHANDLER, *Professor of Gross Anatomy and Neuro-anatomy*  
A.B., University of Missouri, 1922; A.M., M.D., Northwestern University,  
1926, 1927.  
PERCIVAL LLOYD MACLACHLAN,<sup>1</sup> *Professor of Biochemistry*  
B.A., Queens University, 1931; Ph.D., University of Rochester, 1935.  
DAVID FIELDING MARSH, *Professor of Pharmacology*  
A.B., West Virginia University, 1939; M.S., Purdue University, 1940; Ph.D.,  
University of California, 1942.  
MILFORD LEROY HOBBS, *Professor of Pathology and Clinical Pathology*  
M.D., Washington University, 1931; Fellow American College of Physicians,  
Fellow College of American Pathologists, Diplomate, American Board of  
Pathology.  
DAVID WILMARTH NORTHUP, *Professor of Physiology*  
A.B., Reed College, 1930; A.M., University of Oregon, 1932; Ph.D., University of  
Illinois, 1935.  
JOHN MADISON SLACK, *Professor of Bacteriology and Public Hygiene*  
A.B., M.S., Ph.D., University of Minnesota, 1936, 1937, 1940.

### Associate Professors

CECIL BENJAMIN PRIDE,<sup>2</sup> *Associate Professor of Surgery*  
A. B., Ohio Wesleyan University, 1916; B.S., West Virginia University, 1921;  
M.D., Western Reserve University, 1923; F.A.C.S.  
JOHN JOSEPH LAWLESS, *Associate Professor of Medicine and Director of University*  
*Health Service*  
B.S., M.A., Ph.D., University of Minnesota, 1930, 1931, 1934; M.D., Rush  
Medical College, 1939.

<sup>1</sup>Deceased.

<sup>2</sup>Part time. In private practice.

CLARK KENDALL SLEETH, *Associate Professor of Medicine and Assistant Director of Health Service*

A.B., B.S., West Virginia University, 1933, 1935; M.D., University of Chicago, 1938.

THOMAS WALLEY WILLIAMS, *Associate Professor of Histology and Anatomy*

B.S., M.S., Ph.D., University of Pittsburgh, 1934, 1937, 1939.

JOHN CLIFFORD STICKNEY, *Associate Professor of Physiology*

B.S., Wheaton College, 1933; M.S., University of Washington, 1936; Ph.D., University of Minnesota, 1940.

## Assistant Professors

GEORGE RALPH MAXWELL,<sup>2</sup> *Assistant Professor of Medicine (Physical Diagnosis)*

B.S., West Virginia University, 1921; M.D., University of Cincinnati, 1923; F.A.C.P.

FREDERICK RENDELL WHITTLESEY,<sup>2</sup> *Assistant Professor of Medicine*

A.B., Wooster College, 1921; M.D., Western Reserve University, 1925; F.A.C.P.

JOSEPH L. KNAPP, *Assistant Professor of Psychiatry, (Superintendent of Weston State Hospital)* B.S., M.D., University of Illinois, 1934.

ERNST HARRY LUDWIG, *Assistant Professor of Bacteriology*

B.S., M.S., Ph.D., University of Pennsylvania, 1937, 1938, 1947.

EDGAR FRANK HEISKELL, JR., *Assistant Professor of Pathology*

A.B., B.S., West Virginia University, 1938, 1940; M.D., Northwestern University, 1942.

RAY KOPPLEMAN, *Visiting Assistant Professor of Biochemistry*

S.B., University of Chicago, 1944.

James Lowe

## Instructors

CARL EDWARD JOHNSON,<sup>2</sup> *Instructor in Medicine (Physical Diagnosis)*

A.B., B.S., West Virginia University, 1923, 1925; M.D., Northwestern University, 1928; F.A.C.P.

ARCHIE LEMUEL STARKEY, *Instructor in Medicine (Physical Diagnosis)*  
(*Superintendent of Hopemont Sanitarium*).

B.S., West Virginia University, 1924; M.D., University of Arkansas, 1937.

ISABELLE T. GADZIKOWSKI, M.D., *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopemont Sanitarium*).

HAROLD HENRY FEITELBAUM, M.D., *Instructor in Medicine (Physical Diagnosis)*  
(*Physician in Hopemont Sanitarium*).

BETIA STONESTREET GILMORE, *Instructor in Biochemistry*

B.S., West Virginia University, 1947.

WILLIAM SAWYERS HEROLD, *Instructor in Medicine (Physical Diagnosis) and Assistant Physician in Health Service*

A.B., B.S., West Virginia University, 1944, 1945; M.D., Medical College of Virginia, 1946.

## Assistants

DONALD ATWOOD HERRING, *Assistant in Pharmacology*

B.S., Ohio State University, 1941.

MARY GIESON TINGLEY, *Graduate Assistant in Bacteriology*

B.S., West Virginia University, 1946.

MARTHA JANE COYNER, *Assistant in Anatomy*

B.S., West Virginia University, 1942.

LOIS LYON HUPP, *Assistant in Bacteriology*

B.S., West Virginia University, 1948.

<sup>2</sup>Part-time. In private practice.



## Lecturers

- ELDON BRYANT FUECKER,<sup>2</sup> *Lecturer in Pharmacology (Anesthesiology)*  
B.S., West Virginia University, 1919; M.D., University of Cincinnati, 1921.
- JOSEPH LESTER HAYMAN, *Lecturer on Prescription Writing and on food, drug, and narcotic laws relating to physicians*  
(*Dean and Professor of Pharmacognosy, College of Pharmacy*)  
Ph.C., M.S., University of Michigan, 1919, 1925.
- MILTON IRWIN ROEMER, *Lecturer in Bacteriology and Public Hygiene (Hygiene)*  
(*Director, Monongalia County Health Department*)  
B.A., M.A., Cornell University, 1936, 1940; M.D., New York University College of Medicine, 1940; M.P.H., University of Michigan, 1943.

## Technicians

- LELA VIRGINIA STUMP, *Technician in Pathology*  
M.T., Jefferson Medical College, 1945; B.S., West Virginia University, 1948.
- EDNA WILSON BROOKS, *Technician in Pathology*
- CHESTER EARL RAY,<sup>3</sup> *Technician in Anatomy and Histology*

## Clerical

- MARTHA MARSH COWELL,<sup>3</sup> *Secretary of College and Record Clerk*  
B.S., M.S., West Virginia University, 1947.
- JOSEPHINE HARRIS, *Secretary, Department of Pathology*
- LOIS GREEN CONLEY,<sup>3</sup> *Secretary to the Dean*
- PATRICIA KING GODFREY, *Secretary to the Dean*  
B.S., West Virginia University, 1947.
- SUSAN RITLAND HARRIS, *Secretary of College and Record Clerk*  
A.B., West Virginia University, 1948.

# THE UNIVERSITY HEALTH SERVICE

## Physicians

- JOHN JOSEPH LAWLESS, *Director of University Health Service and Associate Professor of Medicine*  
B.S., M.A., Ph.D., University of Minnesota, 1930, 1931, 1934; M.D., Rush Medical College, 1939.
- CLARK KENDALL SLEETH, *Assistant Director of University Health Service and Associate Professor of Medicine*  
A.B., B.S., West Virginia University, 1933, 1935; M.D., University of Chicago, 1938.
- SAMUEL JOHN MORRIS, *Physician and Medical Adviser to the Department of Athletics*  
M.D., University of Maryland, 1912.
- WILLIAM SAWYERS HEROLD, *Assistant Physician and Instructor in Medicine*  
A.B., B.S., West Virginia University, 1944, 1945; M.D., Medical College of Virginia, 1946.
- GEORGE ALEXANDER CURRY,<sup>2</sup> *Assistant Physician*  
A.B., B.S., West Virginia University, 1942, 1943; M.D., University of Cincinnati, 1944.

## Nurses

- ETHEL FEATHER ELLIS, *Nurse in the University Health Service*
- BETTY EMERSON, R.N., *Nurse in the University Health Service*
- MARY STENGER STORCK,<sup>3</sup> R.N., *Nurse in the University Health Service.*

<sup>2</sup>Part-time. In private practice.

<sup>3</sup>Resigned during year.

## Technicians

FABRY LIVINGSTON HAWK, *Chief Technician in the University Health Service*  
Registered Medical Technologist.

## Clerical

HELEN CLARISSA O'NEILL, *Secretary in the University Health Service*  
MARGARET BRODERICK, *Clerk in the University Health Service*  
B.S., West Virginia University, 1946.

## THE STANDING COMMITTEES

EXECUTIVE: E. J. VAN LIERE (*chairman*), G. S. DODDS, F. R. WHITTLESEY, and C. B. PRIDE.  
ADMISSIONS AND SCHOLARSHIP: G. S. DODDS (*chairman*), S. B. CHANDLER, C. K. SLEETH, and M. L. HOBBS.  
LIBRARY: S. B. CHANDLER (*chairman*), J. C. STICKNEY, C. K. SLEETH, and J. M. SLACK.  
RESEARCH, FELLOWSHIPS, AND GRANTS: D. F. MARSH (*chairman*), D. W. NORTHUP, M. L. HOBBS, J. M. SLACK, and E. J. VAN LIERE.  
SEMINARS: C. K. SLEETH (*chairman*), J. C. STICKNEY, E. J. VAN LIERE, and E. H. LUDWIG.  
CLINICAL AND SPECIAL FACILITIES: C. K. SLEETH (*chairman*), C. B. PRIDE, M. L. HOBBS, G. R. MAXWELL, F. R. WHITTLESEY, and J. J. LAWLESS.  
CURRICULUM: C. K. SLEETH (*chairman*), E. H. LUDWIG, E. J. VAN LIERE, D. F. MARSH, and G. S. DODDS.  
STUDENT LOANS AND SCHOLARSHIPS: E. J. VAN LIERE (*chairman*), G. S. DODDS, J. C. STICKNEY, and T. W. WILLIAMS.  
MEDICAL TECHNOLOGY: M. L. HOBBS (*chairman*), G. S. DODDS, J. M. SLACK, and E. J. VAN LIERE.  
POLICY: Heads of departments and the director of the University Health Service.  
GRADUATE STUDY: J. M. SLACK (*chairman*), D. F. MARSH, and J. C. STICKNEY.  
\*Part-time. In private practice.

## Curriculum in Medicine

(For Curriculum in Medical Technology see p. 29)

## GENERAL INFORMATION

### Historical Background

During the years from 1868 to 1912 the University offered courses in pre-clinical medical subjects, the scope and designation of the program changing from time to time. In the earlier years a course was scheduled in Anatomy, Physiology, and Hygiene; and in later years the work had grown to include the first two years of a standard medical curriculum. From 1903 to 1911 the University maintained a College of Medicine, giving the M.D. degree. The first two years were given in Morgantown. Credit for the last two years was accepted from the College of Physicians and Surgeons of Baltimore, to which the students transferred at the end of their second year.

The School of Medicine as now organized had its beginning in 1912. Since that date it has given the first two years of the medical curriculum with no provision for students to transfer to any special school for the completion of

their work until 1943, when an agreement was made with the Medical College of Virginia.

The School of Medicine is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of the American Medical Association. It is also a member of the Association of American Medical Colleges.

### **Agreement With Medical College of Virginia**

Only the first two years of medicine are given at West Virginia University. There has been made an agreement with the Medical College of Virginia at Richmond for the transfer of as many as twenty students, residents of West Virginia, who have completed the first two years at West Virginia University. At the Medical College of Virginia these students pay the same tuition as paid by the residents of Virginia. Upon graduation, diplomas are issued jointly by the two schools. Other students in the class may, as in the past, transfer to various medical schools for the completion of their work.

### **Buildings and Equipment**

#### **THE MEDICAL BUILDING, LABORATORIES, AND CLASSROOMS**

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the Dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second floor are the laboratories for bacteriology and physiology. On the third floor are the laboratories for gross and microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in separate buildings.

The biochemical laboratory occupies rooms in the Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center: a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

#### **LIBRARY**

The Medical Library is not organized as a separate unit but is housed in the University Library Building, where publications of prime importance to the students and Faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building which is adjacent to the Library Building. Additional current issues of essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 15,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with the pre-clinical fields for the most part but comprising also the better representative works in

internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and the history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, the Library of Congress, or other libraries. Complete sets of various abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the Faculty of the School of Medicine is active in the interests of the Medical Library, and a member of the Staff also represents the School of Medicine on the general Library Committee of the University.

### **Living Accommodations**

The University maintains three large dormitories, one for men and two for women. Cost of room and board in all dormitories ranges from \$459 to \$549 per academic year of 9 months. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Director of Residences and Commons, West Virginia University, Morgantown.

Medical students, in the main, must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For further information concerning houses on the approved list, men should address the office of Mr. H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University.

### **Cost of a Year's Work**

Textbooks and supplies will cost about \$75 to \$125 per academic year. Registration fees for residents are \$258; for non-residents, \$408 per academic year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month session for medical students in residence will range from \$800 to \$1,100, exclusive of traveling expenses. The School of Medicine furnishes microscopes for students without charge.

### **LOANS FOR MEDICAL STUDENTS**

It frequently happens that students otherwise well qualified for the study of medicine are short of funds to defray the necessary expenses. For the assistance of such students there are available certain loans, some specifically for medical students, others available to students of all colleges in the Uni-

versity. For information about loans, inquiries should be made to Mr. Harry E. Stone, Secretary, Committee on Prizes, Scholarships, and Loan Funds, West Virginia University, Morgantown.

## **The University Health Service**

The University Health Service, organized as a division in the School of Medicine, provides medical service to all students in the University and supervises health conditions on the campus. Each regularly enrolled University student pays a fee which provides for medical consultation and advice from the University physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. The student's medical fee includes an insurance charge to provide hospitalization for acute illness not to exceed 30 days in a school year. Room charges up to \$5 daily and operating room fees are provided for, but professional fees arising out of such hospitalization are not included. All students receive a complete physical examination, including blood tests, urinalysis, and chest X-ray, during their first semester in the University. In addition the Health Service provides special examinations to students, to University food handlers, and to others, as may be required for University purposes. The University Pharmacy, operated by the College of Pharmacy, supplies prescribed medication at nominal charges.

The staff of the Health Service includes five physicians, three nurses, and two laboratory technicians. The Departments of Pathology and Bacteriology cooperate in various diagnostic laboratory procedures.

The Health Service occupies a well-designed University Health Center constructed in 1941. The three-story building, centrally located on the campus, fronting on College Avenue adjacent to Reynolds Hall, is a T-shaped structure of brick and concrete, with a front width of 88 feet and a depth of 68 feet.

On the first floor are the receiving room, the office of the secretary, offices for four physicians, a room for minor surgery, and a treatment room. One room on this floor is assigned to the University Pharmacy. On the second floor is the diagnostic laboratory equipped for serological, chemical, bacteriological, and hematological examinations. The X-ray unit, equipped for fluoroscopy and radiography, and with a photo-roentgen unit, is located in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor also are rooms occupied by the Department of Pathology of the School of Medicine. These include a student laboratory, pathological museum, preparation room, stock room, and the necessary offices and individual laboratories. The third floor is designed for the hospitalization of students. On the main corridor are rooms accommodating 16 hospital beds. In the rear wing, on a private corridor, are two isolation wards with seven beds for contagious diseases. This corridor has its own bath, toilet, diet kitchen, and utility room. The third floor also includes a room equipped for electrocardiography and basal metabolism testing, and a three-room suite designed as living quarters for nurses.

## **Clinical and Special Facilities**

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine.

**Hopemont Sanitarium**, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in the examination of the sick, with particular reference to pulmonary diseases.

Also by special arrangements the students of the School of Medicine have access to the clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; the adjoining County Infirmary, with 50 inmates; and the Heiskell Memorial Hospital, a private general hospital with a bed capacity of 90.

**Intramural Clinics.** With the cooperation of members of the local medical profession ambulatory cases are available for examination and demonstration.

**Autopsy Service and Pathological Museum.** Under an agreement with the coroner of Monongalia County, the Department of Pathology of the School of Medicine at intervals performs and records coroner's autopsies. Autopsies are available also for teaching purposes from the Heiskell Memorial Hospital, the Monongalia General Hospital, and the Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

## **Seminar**

On alternate Friday afternoons at 4 o'clock there is held a seminar attended by Faculty and students of the School of Medicine. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the Faculty, the student body, and members of the medical profession not connected with the School. The papers deal both with the preclinical sciences and various phases of the practice of medicine.

## **Organizations and Lectureships**

### **ALUMNI ASSOCIATION**

The graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

## JOHN NATHAN SIMPSON LECTURESHIP

In 1933 the West Virginia chapter of the Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, first dean of the School of Medicine, giving an annual lecture by some one distinguished in medical research or practice.

### REQUIREMENTS FOR ADMISSION

The requirements for admission to the Medical School of West Virginia University conform to the standards of the Association of American Medical Colleges and the Council on Medical Education and Hospitals of the American Medical Association; however, they exceed the minimum standards of these associations.

All applications for admission are passed upon by the Committee on Admissions of the Medical School, composed of five members of the Medical Faculty. Admission is by recommendation of this Committee and with the approval of the Dean of the School.

The number of students that can be accommodated is strictly limited. In recent years the number of applicants has been so great that only residents of West Virginia could be considered, and of these only a small percentage could be admitted. Those admitted are the applicants who, in the judgment of the Committee on Admissions, are best qualified for the study of medicine, and who give highest promise of full service in the practice of medicine. Recently the number of applicants has been so great that the school could not accommodate all who were reasonably well qualified.

Any applicant who is refused admission or who fails to enroll after acceptance, and who may wish consideration for a subsequent year, must re-apply in the regular manner.

#### 1. Subject Requirements for Admission

To be eligible for admission, the applicant must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college. Credits submitted by applicants for work done elsewhere than in West Virginia University are evaluated by the Registrar of the University and must meet the general standards set by the University for acceptance of credits by transfer.

A detailed statement of subject requirements follows:

### Secondary-school Credits Required

For admission to the Medical School the applicant must have credit for at least 15 units of high-school work. This must include four units of English,\* two of mathematics (algebra, one, and plane geometry, one), and other subjects as specified in the general admission requirements of the University. The School of Medicine strongly urges two units of Latin.

\*Students who present only 3 units of English may satisfy this requirement by making a satisfactory grade on the English Placement Test, or by successfully completing English 1C, English Composition

## College Credits Required

The applicant must have credit for at least three years in a college of recognized standing. This credit must total at least 90 semester hours exclusive of military and physical education.

The council on Medical Education and Hospitals of the American Medical Association publishes a list of about seven hundred colleges which it approves for pre-medical education. Medical schools must give preference to applicants from the institutions on this list. Schools may accept students from other institutions only when they show evidence of superior ability, as indicated by adequate credits and superior grades. Students planning pre-medical work should consult the Medical School or other authentic source for information about approved colleges.

The following subjects and hours are the minimum requirements for admission. They must be met in full before enrollment in the Medical School.

**English, composition and rhetoric** ----- 6 hours  
**Biological Sciences** ----- 12 hours

Should be mainly zoology and should include an advanced course in comparative anatomy of the vertebrates. Additional work is desirable and should include genetics and embryology. The following are not acceptable as part of the 12-hour requirement: human anatomy, histology or physiology, or medical bacteriology.

**Chemistry** ----- 20 hours

Must include one year of organic chemistry; 6 hours of qualitative and quantitative analysis; and 6 hours of organic chemistry (covering aliphatic and aromatic chemistry). Physical chemistry is desirable. Physiological chemistry is not acceptable as part of the required 20 hours.

**Physics** ----- 8 hours

**Psychology** ----- 3 hours

**A modern foreign language** ----- 12 hours

German or French preferred. Must be in one language. Two units in high school are accepted as 6 hours of the required 12 hours.

**Mathematics:** College algebra and trigonometry, while not absolute requirements, are looked upon with high favor by the Committee on Admissions. These subjects should be taken in the freshman pre-medical year because of their great usefulness in the study of physics and chemistry. Analytical geometry and calculus are of advantage to those students who can include them in their program.

**Latin:** Either high-school or college Latin is strongly urged. It will be of great value.

**Other subjects:** The following are recommended as electives:

Art (drawing), botany, economics, geology, Greek, history, speech, political science, and sociology. The pre-medical student should secure a broad training, including adequate work outside the required scientific fields.

### 2. Scholarship

The quality of his premedical scholarship is the best single criterion of the probable success of the applicant in the study of medicine. For this reason applicants with high grades are given preference. Experience has shown that students with a premedical average "C" or lower have only a small chance of doing acceptable work in medical school.



### **3. Medical Aptitude Test**

The Association of American Medical Colleges sponsors an aptitude test, which is administered by the Educational Testing Service. It is given at convenient centers on announced dates. Premedical advisers will furnish this information on request. Students should make arrangements to take the test at another center if it is not given at the local college. Students desiring admission in September 1950 should take the test at the first opportunity (October 22, 1949) and should not wait for a later date. Students with good records in this test have better chance for admission than those with poor records or those who have not taken the test at all.

### **4. Residence**

Preference is given to residents of West Virginia. For several years the resident applicants have been so numerous that there have been no places available for non-residents.

### **5. Personal Attributes**

Careful consideration is given to those personal qualifications which have a bearing upon the fitness of the applicant for the study and practice of medicine. Students must be at least 18 years of age at the time of entrance to the Medical School. Persons who have been out of college for some years, or who are several years older than the average applicant, are admitted only when they show unmistakable evidence of superior ability and training.

### **6. Previous Failures**

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Admissions considers such readmission justified.

### **7. How to Apply for Admission**

Application for admission must be made upon blanks which may be obtained from the Dean's office upon request. A small unmounted photograph must accompany the application.

### **8. Credentials**

Unless the applicant is a student at West Virginia University, he must ask the registrar of each college he has attended to send, directly to the Medical School, an official transcript of his work. (The University cannot accept transcripts sent by the applicant himself.) Records should include a statement of work in progress, and work subsequently completed should be promptly reported to the Medical School.

### **9. When to Apply for Admission**

Application for admission in September 1950 should be made promptly upon completion of the school year 1948-49 (June 1949). The applicant should at once request the registrar of each college he has attended to send a transcript of his work directly to the Medical School. Applications will be considered until the class is filled, but early application is advantageous.

### **10. Notification of Applicants**

All applicants will be informed of the action of the Committee on Admissions as promptly as possible after decisions are reached. The earliest acceptances will probably be issued in November or December.

## **Pre-Medical Curricula**

In keeping with the need for good pre-medical training, West Virginia University, through its pre-medical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia University to give special pre-medical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude in choice of electives in other departments, so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Another pre-medical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B.S. degree in pharmacy. For information concerning this course, inquiries should be addressed to the Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.

## **REGISTRATION**

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in Medical School classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each semester as announced in the calendar on page 3 of this **Bulletin**.

No student will be permitted to register in the School of Medicine after the first week of classes.

## **Departure from Scheduled Work**

Students must register for all the prescribed courses for each semester except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## **Immunization**

The School of Medicine requires that during the first semester of the first year all medical students must complete certain prescribed immunizations and diagnostic procedures. These are administered without charge by the University Health Service.

## FEES

All fees are due and payable at the office of the Comptroller on the day of registration.<sup>1</sup> Students registering in the School of Medicine pay the following:

### Advance Deposit Fee

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list of registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first term. If the applicant fails to enter the School of Medicine this deposit fee is forfeited by the applicant. The deposit paid by students under the G. I. Bill of Rights will be refunded after the full tuition has been paid.

### Tuition and Other Fees

	Residents <sup>2</sup>	Non-Residents <sup>2</sup>
Full-time students <sup>2</sup> (per semester) Tuition -----	\$ 87.00	\$162.00
University Fees -----	42.00	42.00
Total -----	\$ 129.00	\$204.00
Part-time students (per semester hour) <sup>2</sup> -----	8.00	12.50

Special fee for students not regularly enrolled in the School of Medicine or the College of Pharmacy, \$4 per credit hour in addition to the fee charged in the college or school in which they are registered.

Breakage deposit (for year) ----- \$ 10.00

Breakage deposit for university students not regularly enrolled in the Medical School, for one laboratory course, \$5, and for more than one course, \$10.

### SPECIAL FEES

Late registration <sup>4</sup> -----	\$ 2.00
Diploma fee <sup>5</sup> -----	10.00
Student's record fee <sup>3</sup> -----	1.00

<sup>1</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the Registrar shall notify their instructors that their class cards are to be withdrawn.

<sup>2</sup>A full-time student is one who is registered for 10 or more semester hours during a term. A part-time student is one who is registered for fewer than 10 semester hours per term.

<sup>3</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No non-resident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid non-resident fees may become entitled to pay resident fees, if after an interim of non-attendance or otherwise he has established a valid legal domicile in this State, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>4</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 3.

## REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University.

	Amount of Refund
During the first and second weeks -----	All fees less \$3.00
During the third and fourth weeks -----	80% of fees
During the fifth and sixth weeks -----	60% of fees
During the seventh and eighth weeks -----	40% of fees
Beginning with ninth week -----	No refunds allowed

## STANDARDS OF SCHOLARSHIP

### Grading and Grade Points

A—excellent—given only to students of superior ability and attainment

B—good—given to those students who are well above the average but who are not in the highest group

C—fair—average students

D—poor but passing

E—condition<sup>7</sup>

F—failure

FIW—failure because of irregular withdrawal

I—incomplete<sup>8</sup>

In computing average grades, the following grade-point values per semester hour are used: A—4; B—3; C—2; D—1; E, I, F, WF, FIW—0. When grades of E or I become converted into grades carrying credit, the average is calculated on the basis of the new grades.

When grades transferred from other institutions are expressed in a system different from the one used at West Virginia University, the values are adjusted to give an equivalent measure of accomplishment.

### Removal of Conditions

Examinations for the removal of conditions incurred during the first semester will be held during the week following Easter vacation. Examinations for conditions incurred during the second semester of the first year will be held during the first day of registration in September, in order that eligibility of students to enter the second year may be determined.

Examinations for the removal of conditions incurred during the second semester of the second year will be held at dates determined by agreement between the instructor concerned and the Scholarship Committee.

Before these dates, students who wish to take the examinations should make application to the professor concerned.

<sup>7</sup>The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

<sup>8</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

<sup>7</sup>A mark of "E" not removed within the following semester becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than a "C" shall be recorded for the removal of a condition.

<sup>8</sup>If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship.

## Promotions and Suspensions

The Committee on Scholarship of the School of Medicine is responsible for the administration of the following rules. Exceptions may be made only on the recommendation of this Committee. The application of rules on suspension is not automatically changed by removal of conditions or by the repetition of courses in other medical schools. Permission for repetition of the work in this Medical School may be granted only by the Scholarship Committee.

1. Students must register for all the courses scheduled for each semester.
2. A student who does not make passing grades in at least half of the registration hours in any semester is automatically suspended from the school.
3. A student who during any two consecutive semesters does not attain a grade-point average of 1.5 for all the courses for which he is registered, is thereby automatically suspended even though he may pass in all the courses. (For grade-point values, see page 18.)
4. No students will be permitted to register for the work of the second year until all courses for the first year have been successfully completed.

## Withdrawals

A student who wishes to withdraw during the term should do so in regular manner. Consult the Dean's office for the steps which must be taken.

## DEGREES

The School of Medicine gives no degree in medicine except in cooperation with the Medical College of Virginia, as noted on page 9.

Upon completion of the second year in the School of Medicine, students receive the **Bachelor of Science** degree. At the end of the first year, those students who have met certain requirements of the College of Arts and Sciences in West Virginia University receive the **Bachelor of Arts** degree.

The **Master of Science** degree is offered by certain departments of the School of Medicine. Properly qualified University graduate students are eligible. Medical students may work toward this degree by study during four summer terms (two full summers.) For fuller information consult the Chairman of the Committee on Graduate Work in the Medical School or see the Graduate Bulletin.

## THE DAY-AND-HOUR SCHEDULE

### First Year — First Semester

	8	9	10	11	12	1	2	3	4	5
M		Biochemistry						Histology		
T		Anatomy						Histology		
W		Biochemistry						Anatomy		
Th		Anatomy		Biochem.				Histology		
F		Biochemistry						Histology		
S										

### First Year — Second Semester

	8	9	10	11	12	1	2	3	4	5
M		Neuro-anatomy						Bacteriology		
T		Embry.	Anatomy	N. Anatomy				Physiology		
W		Neuro-anatomy		Physiol.				Bacteriology		
Th		Embry.	Anatomy					Bacteriology		
F		Anatomy		Physiol.				Bacteriology		
S										

## THE DAY-AND-HOUR SCHEDULE

### Second Year — First Semester

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Physiol.	Medicine					Pathology		
T	Pathology			Physiol.				Physiology		
W	Pathology		Hygiene	Physiol.				Pathology		
Th	Pharm.	Physiol.	Psychob. or Biostat. (Alt.)					Physiology		
F	Pharm.	P. Diag.	Hygiene	Physiol.				Pathology		

### Second Year — Second Semester, First Half

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Cl. Path.	Obstet.	Phy. Diag.				Pharmacology		
T	Pharm.	Med.	Hist. Med.	Surgery				Applied Anatomy		
W	Med.	Pharm.	Clinical Pathology					Pharmacology		
Th	Cl. Path.	Cl. Path.	Obstet.	Surgery				Applied Anatomy		
F	Phys. Diag.		Clinical Pathology					Pathology		
S										

### Second Year — Second Semester, Second Half

	8	9	10	11	12	1	2	3	4	5
M	Med. or Surg.		Cl. Path.	Obstet.			Pathology	Hist. Med.	Anesth.	
T	Med. or Surg.		Pharm.	Surgery				Clin. Path.		
W	Med.	Ph. Diag.	Pathology					Pharmacology		
Th	Med.	Phys. Diag.	Pharm.	Surgery				Clin. Path.		
F	Ph. Diag.		Pharm.	Obstet.				Clinical Pathology		
S										

## THE SCHEDULE OF COURSES FOR 1949-50

	Hrs. per week			Hrs. per semester			Semester Hours Credit
	Lect.	Lab.	Total	Lect.	Lab.	Total	
First Year — First Semester							
Gross Anatomy 201 .....	2	8	10	32	128	160	6
Histology 211 .....	3	9	12	48	144	192	6
Biochemistry 231 .....	4	9	13	64	144	208	7
First Year — Second Semester							
Gross Anatomy 202 .....	2	6	8	32	96	128	4
Neuro-Anatomy 203 .....	2	6	8	32	96	128	4
Embryology 212 .....	2	0	2	32	0	32	2
Medical Bacteriology 221 ....	3	9	12	48	144	192	6
Physiology 242 .....	2	3	5	32	48	80	3
Second Year — First Semester							
Physiology 243 .....	5	6	11	80	96	176	7
Gen. and Tumor Pathology 251	5	9	14	80	144	224	7
Pharmacodynamics 262 .....	3	0	3	48	0	48	3
Hygiene 222 .....	2	0	2	32	0	32	2
Introductory Medicine 272 ..	0	2	2	0	32	32	*
Psychobiology 273 .....	1	0	1	16	0	16	1
Biostatistics 274 .....	1	0	1	16	0	16	1
Physical Diagnosis 271 .....	1	0	1	16	0	16	*
Second Year — Second Semester, First Half							
Applied Anatomy 204 .....	2	4	6	16	32	48	2**
Clinical Pathology 254 .....	2	4	6	16	32	48	***
Special Pathology 252 .....	1	2	3	8	16	24	***
Medical Pharmacology 263 ..	4	6	10	32	48	80	***
Obstetrics 291 .....	2	0	2	16	0	16	***
History of Medicine 275 .....	1	0	1	8	0	8	0
Physical Diagnosis 271 .....	1	2	3	8	16	24	***
Introductory Medicine 272 ...	2	0	2	16	0	16	***
Surgery, Principles of 281 ...	2	0	2	16	0	16	***
Second Year — Second Semester, Second Half							
Special Pathology 252 .....	2	2	4	16	16	32	2
Clinical Pathology 254 .....	3	7	10	24	56	80	3
Medical Pharmacology 263 ...	3	3	6	24	24	48	4
Clinical Anesthesiology 264 ..	1	0	1	8	0	8	0
Obstetrics 291 .....	2	0	2	16	0	16	2
Physical Diagnosis 271 .....	2	2	4	16	16	32	3
Introductory Medicine 272 ...	2	2	4	16	16	32	3
History of Medicine 275 .....	1	0	1	4	0	4	0
Surgery, Principles of 281 ....	2	2	4	16	16	32	2

\*Course continues throughout the year.

\*\*Course completed at mid-semester.

\*\*\*Course continues throughout the semester.



## THE COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the particular course. The plan for numbering courses in West Virginia University is as follows:

Courses 1 to 99—courses primarily for freshmen and sophomores.

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester.

II—a course offered during the second semester.

I. II—a semester course offered each semester.

Yr.—a continuous course extending through two semesters.

Hrs.—Number of semester hours credit per course.

NOTE—Courses marked "1" are required of first-year students; those marked "2" are required of second-year students.

In addition to the required courses there are listed some elective courses for the benefit of other University students who may need them. They are given only when, in the opinion of the department concerned and of the Dean, it is considered advisable. If there should arise a demand for any of these courses, the Medical School will try to meet the need, but the schedule will be contingent upon the extent to which staff members are occupied with the required medical courses. For full information see the Announcements of the Graduate School.

### Gross Anatomy and Neuro-anatomy

Professor CHANDLER; Associate Professor WILLIAMS; Assistant COYNER

201.<sup>1</sup> **Gross Anatomy. I.** 6 Hrs. Lecture, 2 hours per week; laboratory, 8 hours.

202.<sup>1</sup> **Gross Anatomy. II.** 4 Hrs. Continuation of Anatomy 201. Lecture, 2 hours per week; laboratory, 6 hours.

203.<sup>1</sup> **Neuro-anatomy. II.** 4 Hrs. Lecture, 2 hours per week; laboratory, 6 hours.

204.<sup>2</sup> **Applied Anatomy. II.** 2 Hrs. Lecture, 2 hours per week; laboratory, 4 hours during first half of semester.

206. **Anatomy of the Sympathetic Nervous System. I or II.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

207. **Applied Anatomy of the Pelvis and Perineum. I or II.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

301. **Advanced Anatomy. I or II.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

## **Histology and Embryology**

Professor DODDS; Associate Professor WILLIAMS

- 211.<sup>1</sup> **Histology.** I. 6 Hrs. Histological structure and elementary embryology of tissues and organs. Lecture, 3 hours per week; laboratory, 9 hours.
- 212.<sup>1</sup> **Human Embryology.** II. 2 Hrs. Comprehensive survey of human development in relation to gross and microscopic structure. Lecture, 2 hours per week.
216. **The Histology and Development of the Skeletal System.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature.
217. **Advanced Embryology.** I or II. 2-5 Hrs. Topics to be chosen to meet special needs of students. Hours to be arranged. Open to properly qualified students.
311. **Research in Microscopic or Developmental Anatomy.** I or II or Yr. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

## **Bacteriology and Public Hygiene**

Professor SLACK; Assistant Professor LEWIS; Assistant HUPP;  
Lecturer ROEMER

220. **Pathogenic Bacteriology.** I, S. 5 Hrs. For students in pharmacy and medical technology. Open to other qualified students. Lecture, 2 hours per week; laboratory, 8 hours.
- 221.<sup>1</sup> **Medical Bacteriology.** II. 6 Hrs. Lecture, 3 hours per week; laboratory, 9 hours.
- 222.<sup>2</sup> **Public Hygiene.** I. 2 Hrs. Lecture, 2 hours per week.
224. **Diagnostic Bacteriology.** I, II, S. 3 Hrs. Arranged. PR: Bact. 221 or equivalent.
- 226, 227. **Special Problems in Bacteriology.** I, II, S. 2-5 Hrs. Arranged. PR: Bact. 221 or equivalent.
- 320, 321. **Advanced Bacteriology.** I, II, S. 2-5 Hrs. Arranged. PR: Bact. 221 or equivalent.
- 323, 324, 325, 326. **Research in Bacteriology.** I, II, S. 1-6 Hrs. Arranged. PR: Bact. 221, 320, or equivalent.

## **Biochemistry**

Assistant Professor KOPPELMAN; Instructor GILMORE

- 139 or 239. **General Biochemistry.** II. 4 Hrs. PR: Inorganic and organic chemistry. Quantitative analysis desirable. For students in Home Economics and Medical Technology. Open to other qualified students. Graduate students required to do 1 hour additional work per week for 4 hours' credit.
- 231.<sup>1</sup> **Biochemistry.** I. 7 Hrs. Lecture, 4 hours per week; laboratory, 9 hours.

237. **Seminar in Biochemistry.** Yr. 2 Hrs. PR or conc.: Biochem. 231. Presentation and discussion of special topics.
- 330, 331. **Advanced Biochemistry.** I, II, S. 2-5 Hrs. Arranged. PR: Course 231 or equivalent. Emphasis on biochemical methods.
- 333, 334, 335, 336. **Research in Biochemistry.** I, II, S. 1-6 Hrs. Arranged. PR: Biochem. 231 or equivalent.

## Physiology

Professors NORTHUP and VAN LIERE; *Associate Professor* STICKNEY

141. **Elementary Physiology.** II. 4 Hrs. For students in Pharmacy and Medical Technology. Lecture, 3 hours per week; laboratory, 3 hours.
- 242.<sup>1</sup> **Physiology.** II. 3 Hrs. Physiology of muscle and nervous system. Lecture, 2 hours per week; laboratory, 3 hours.
- 243.<sup>2</sup> **Physiology.** I. 7 Hrs. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, and special senses. Lecture, 5 hours per week; laboratory, 6 hours.
246. **Seminar in Physiology.** Yr. No credit.
- 340, 341. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Arranged.
342. **Physiology of Gastro-intestinal System.** II. 2-5 Hrs. Arranged. PR: Physiol. 243.
- 343, 344. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Arranged. PR: Physiol. 242 and 243 or Zool. 238; psychology or neuro-anatomy.
345. **Endocrinology.** I. 2-5 Hrs. Arranged. PR: Physiol. 243.
- 346, 347, 348, 349. **Research in Physiology.** Yr. 1-6 Hrs.

## Pathology

Professor HOBBS; Assistant Professor HEISKELL

151. **Clinical Laboratory Diagnostic Methods.** II. 4 Hrs. Study of blood, exudates, transudates, gastric contents, urine, etc. Lecture, 2 hours per week; laboratory, 6 hours. Required of students in Medical Technology.
- 251.<sup>2</sup> **General and Tumor Pathology.** I. 7 Hrs. Includes both gross and microscopic studies with demonstrations. Lectures, 4 hours per week; laboratory, 10 hours.
- 252.<sup>2</sup> **Special Pathology.** II. 2 Hrs. A study of special diseases with gross and microscopic specimens from selected autopsies. Lecture, 1 hour, laboratory, 2 hours per week during first half of semester; lecture, 2 hours per week; laboratory, 2 hours during second half of semester.
- 254.<sup>2</sup> **Clinical Pathology.** II. 3 Hrs. A laboratory course in blood, gastric contents, urine, etc., and their pathological and clinical significance. Lecture, 2 hours per week; laboratory, 4 hours during first half of semester; lecture, 3 hours per week; laboratory, 7 hours during second half of semester.
256. **Advanced Pathology.** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. PR: Pathology 251.

351. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students.

## **Pharmacology**

PROFESSOR MARSH; ASSISTANT HERRING; LECTURERS TUCKER and HAYMAN

- 262.<sup>2</sup> **Pharmacodynamics.** I. 3 Hrs. Lecture, 3 hours per week.
- 263.<sup>2</sup> **Medical Pharmacology.** II. 4 Hrs. Lecture, 4 hours per week, laboratory, 6 hours, first half of semester; lecture, 3 hours per week, laboratory, 3 hours, second half of semester.
- 264.<sup>2</sup> **Clinical Anesthesiology.** II. No credit. Practical demonstrations of anesthesia to be arranged. 1 hour per week, second half of semester.
266. **Biochemorphology.** II. 2 Hrs. Lecture, 2 hours per week. Relation between chemical constitution and physiological action of medical agents. PR: Pharmacology 262. or Chemistry 238 or 277.
- 360, 361. **Bioassay and Comparative Pharmacology.** I, II, S. 3 Hrs. PR: Pharmacol. 262; or Chem. 238 or 277 and Histol. 211; or Pharmacy 110.
- 362, 363. **Advanced Pharmacology.** I, II, S. 2-5 Hrs. Arranged. PR: Pharmacol. 360. Rational investigation of new drugs and comparison with presently used clinic drugs.
364. **Toxicology.** I, II, S. 1 Hr. PR: Graduate status in pharmacology or chemistry.
365. **Anesthesiology.** I, II, S. 3 Hrs. PR: Physiol. 243.
- 366, 367, 368, 369. **Research in Pharmacology.** I, II, S. 1-6 Hrs. PR: Graduate status in physiology, chemistry, or agriculture.

## **Medicine**

ASSOCIATE PROFESSORS SLEETH and LAWLESS; ASSISTANT PROFESSORS KNAPP, MAXWELL, and WHITTLESEY; INSTRUCTORS JOHNSON, HEROLD, STARKEY, TEITELBAUM, and GADZIKOWSKI

- 271.<sup>2</sup> **Physical Diagnosis.** Yr. 3 Hrs. Lecture, 1 hour per week during first semester; lecture, 1 hour per week, laboratory, 2 hours during first half of second semester; lecture, 2 hours per week, practical work with patients, 2 hours during second half of second semester. Hospital clerkship at Hopemont Sanitarium, 1 week.
- 272.<sup>2</sup> **Introductory Medicine.** Yr. 3 Hrs. Medical clinic—demonstration of clinical cases, 2 hours per week during first semester; lecture, 1 hour per week during first half of second semester; lecture, 2 hours, demonstration of clinical cases, 2 hours per week during second half of second semester. Hospital clerkship at Hopemont Sanitarium, 1 week.
- 273.<sup>2</sup> **Psychobiology.** I. 1 Hr. Introduction to the study of human personality, normal and abnormal. Lecture, 1 hour per week.
- 274.<sup>2</sup> **Biostatistics.** I. 1 Hr. Planned to aid in the understanding of the statistical methods commonly used in medical and biological work, and in the evaluation of experimental data in these fields. Lecture, 1 hour per week.

## History of Medicine

Professor CHANDLER

275.<sup>2</sup> History of Medicine. II. No credit. A brief history of the development of the science and art of medicine. Lecture, 1 hour per week.

## Introductory Surgery

Associate Professor PRIDE

281.<sup>2</sup> Principles of Surgery. II. 2 Hrs. Lecture, 2 hours per week during first half of semester; lecture, 2 hours per week during second half of semester, demonstrations of clinical cases and operative technique, 2 hours.

## Obstetrics

Professor VAN LIERE

291.<sup>2</sup> Obstetrics. 1. 2 Hrs. An introductory course in obstetrics. Lecture, 2 hours per week.

## THE LIST OF STUDENTS 1948-49

### First-year Students (Entered September 15, 1948)

Birkhead, Roland Stillwell -----	Glen Ferris
A.B., West Virginia University, 1948	
Brown, David Robert -----	Buckhannon
B.S., West Virginia Wesleyan College, 1948	
Cather, Carl Henry, Jr. -----	Morgantown
A.B., West Virginia University, 1948	
Cavender, Jerill Drexel -----	Charleston
Day, James Fair -----	Wheeling
A.B., West Virginia University, 1948	
Dyer, Newman Allen -----	Charleston
Fleming, Donald Eugene -----	Holliday's Cove
B.S., Marietta College, 1948	
Goff, Fred Lewis -----	Charleston
Grobe, James Lester -----	Huntington
Hamilton, Frank Alexander -----	Martinsburg
Harris, William Eugene -----	West Milford
Hatfield, Asel Poe -----	Harrisville
Hatfield, Johnny Ray -----	Gilbert
Hull, George Heltzel -----	Durbin
Jackson, Dorothy Virginia -----	Charleston
B.S., West Virginia Wesleyan College, 1948	
Janes, Robert Glenn -----	Fairmont
A.B., West Virginia University, 1948	
Matthews, Joseph George -----	Wheeling
A.B., West Virginia University, 1948	
Maxwell, Howard Jackson -----	Lost Creek
Morgan, David Zackquill -----	Kingwood
A.B., West Virginia University, 1948	
Murray, John Alexander -----	Princeton
B.S. Ed., Concord College, 1947	

Oram, Joseph B.	Lester
B.S., Concord College, 1948	
Plunkett, Anne Jean	Buckhannon
A.B., West Virginia University, 1948	
Rexrode, Luther Emerson	Sugar Grove
B.S. Pharmacy, West Virginia University, 1948	
Sherman, John Watts	Morgantown
A.B., West Virginia University, 1948	
Starr, Richard Granville	Glen Morgan
Stout, David Jackson	Lost Creek
Tabor, Richard Hugh	Charleston
Weimer, George Alexander	Bethany
A.B., Bethany, 1948	
Wingfield, Richard Wayne	Elkins
Wise, Charles Davidson	Milton
Woodrum, Jack Donald	Bellepoint

### Second-year Students (Entered September 15, 1947)

Bell, Ross Oliver, Jr.	Morgantown
A.B., West Virginia University, 1947	
Boggs, Charles Harmon, Jr.	Franklin
A.B., West Virginia University, 1948	
Boone, Ralph Harold	Elm Grove
A.B., West Virginia University, 1948	
Bos, John Fremont	Buckhannon
Brown, James David	Craigsville
A.B., West Virginia University, 1948	
Burner, Ralph Burton	Buckhannon
B.S., Alderson-Broadbudd College, 1941	
Clark, David Sheffer	Huntington
B.S., Marshall College, 1947	
Cowell, William Englehart	Morgantown
A.B., West Virginia University, 1949	
Coyner, Martha Jane	Buckhannon
B.S., West Virginia University, 1942	
Davis, Merle Burton	Fairmont
B.S., West Virginia University, 1947	
Davis, Preston Caldwell	Morgantown
A.B., West Virginia University, 1946	
Freeman, Emma Jane	Adrian
A.B., West Virginia University, 1947	
French, John David	Bluefield
B.S., Davis and Elkins College, 1948	
Hicks, Clarence Edwin	Spring Hill
A.B., West Virginia University, 1948	
Irvine, William Dane	Lewisburg
A.B., West Virginia University, 1948	
Jones, Edward Paul	Elkins
McHugh, Elmer Francis	Morgantown
A.B., West Virginia University, 1947	
Marra, Erma Jean	Morgantown
A.B., West Virginia University, 1948	
Oliphant, Wilmer Grey	Mount Hope
A.B., West Virginia University, 1947	
Reda, Frank Anthony	Clarksburg
A.B., West Virginia University, 1944	

Roles, Earl Elmore .....	Lillybrook
A.B., West Virginia University, 1947	
Schnabel, Robert Frederick .....	Huntington
Shutts, Paul Eugene .....	Vienna
B.S. Pharmacy, West Virginia University, 1944	
Simmons, Leslie Dale .....	Clarksburg
B.S., Pharmacy, West Virginia University, 1943	
Valentine, Albert Martin .....	Morgantown
Willis, Robert Frederick .....	East Bank
A.B., West Virginia University, 1948	
Wotring, James Earl .....	Morgantown
A.B., West Virginia University, 1948	

## WEST VIRGINIA UNIVERSITY

### THE SCHOOL OF MEDICINE

### THE CURRICULUM IN MEDICAL TECHNOLOGY

#### General Information

The curriculum in Medical Technology leads to the degree of Bachelor of Science (Medical Technology). This curriculum prepares students to serve as technicians in hospitals, clinics, research laboratories, etc., and in offices of private physicians.

Training standards for laboratory technicians are under the general supervision of the Council on Medical Education and Hospitals of the American Medical Association, which inspects, evaluates, and approves schools. This school is included in the list of those approved by the American Medical Association. In this field, properly qualified persons, upon passing the required examinations, may be certified by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

During the first two years the student is registered in the College of Arts and Sciences and is under the supervision of the pre-medical adviser. These two years are considered as a preliminary training.

The third and fourth years include the specialized and technical training of the curriculum. During these years the student is under the jurisdiction of the School of Medicine. But these students are not to be regarded as medical students, nor can any course taken during these years be counted toward the M. D. degree.

The work of the last year is largely individual in nature, carried on in laboratories and hospitals. The students are considered as temporary members of the laboratory staff and are subject to the usual regulations and discipline of the regular staff.

#### Requirements for Admission

- (e) The admission requirements for the first year (pretechnology) are the same as for the College of Arts and Sciences, namely, 15 units of high-school work, including the subjects specified in the University Catalogue.
- (b) For admission to the third year, students must complete the first two years

of the curriculum outlined below in West Virginia University, or an equivalent program in other institutions of recognized standing.

- (c) Only a limited number of students can be accommodated in the third and fourth years. Preference is given to residents of West Virginia. Application should be made on forms obtainable from the School of Medicine and must be presented at the office of the dean of the school. Applications should be made in February and will be considered after the first of April. Admission is on the recommendation of the Committee on Medical Technology and with the approval of the Dean of the Medical School.

### **Immunization**

The School of Medicine requires that during the first semester of the first year all students in Medical Technology must complete certain prescribed immunizations and diagnostic procedures. These are administered without charge by the University Health Service.

### **Standard of Scholarship**

The administration of scholarship standards is in charge of the Committee on Medical Technology. The following rules apply:

A student who does not make passing grades in at least half of the registration hours during any semester is automatically suspended. (General University rule)

Eligibility to begin the work of the fourth year is contingent upon the demonstration of personal aptitude for this work and upon full completion of the curriculum of the third year with a grade-point average of 1.5 per registration hour.

### **Requirements for the Degree**

The degree, Bachelor of Science (Medical Technology), will be given upon completion of the curriculum outlined below.

### **Fees**

For the first two years, students pay the regular fees charged in the College of Arts and Sciences. In the last two years, while students are under the jurisdiction of the School of Medicine, there is an additional tuition fee of \$25 per semester. There is a breakage deposit of \$10 per year.

### **Committee on Medical Technology**

M. L. HOBBS (Professor of Pathology and Clinical Pathology), *Chairman*.

G. S. DODDS (Chairman of Committee on Entrance and Scholarship).

JOHN M. SLACK (Associate Professor of Bacteriology and Public Hygiene).

E. J. VAN LIERE (Dean of Medical School).

## **THE CURRICULUM**

During the first two years the student is registered in the College of Arts and Sciences.



### First Year (pretechnology)

<i>First Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>	<i>Second Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>
Inorganic chemistry .....	3	4	Inorganic chemistry .....	4	4
General zoology .....	1	4	General zoology .....	2	4
English composition .....	1	3	English composition .....	2	3
Modern foreign language ..		3	Modern foreign language ..		3
Electives .....		2	Electives .....		2
Physical education .....		1	Physical Education .....		1

### Second Year (pretechnology)

<i>First Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>	<i>Second Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>
Qualitative analysis .....	5	4	Quantitative analysis .....	15	3
English literature .....		3	English literature .....		3
Modern foreign language ..		3	Modern foreign language ..		3
General physics .....	1-3	4	General physics .....	2-4	4
Electives .....		2	Electives .....		2
Physical education .....		1	Physical education .....		1

**NOTE:** In addition to the courses listed above, male students must take military science to meet the University requirements.

### Third Year

During the third and fourth years the student is under the jurisdiction of the School of Medicine. This part of the curriculum is open only to students approved by the Committee on Medical Technology.

<i>First Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>	<i>Second Semester Subjects</i>	<i>Course No.</i>	<i>Hrs.</i>
Pathogenic bacteriology ..	220	5	Elementary physiology ....	141	4
Organic chemistry .....	131	4	General biochemistry ....	139	4
Comparative anatomy ....	231	5	Parasitology .....	120	4
Electives .....		3	Clinical laboratory diagnostic methods .....	151	4

### Fourth Year

The following courses comprise the work of the fourth year in the curriculum leading to the Bachelor of Science degree (Medical Technology). The work is largely individual in nature and consists mainly of practical experience under careful supervision in Laboratories and Hospitals. At present, training in these subjects is given at West Virginia University, the State Hygienic Laboratory, the Charleston General Hospital, and Fairmont General Hospital. The work of the fourth year covers a whole calendar year of 12 months.

### Professional Courses Required of Fourth-Year Students

<i>Course No.</i>	<i>Description of Courses</i>
101.	<b>Applied Bacteriology.</b> Yr. 4 Hrs. Methods of sterilization, preparation of culture media and vaccines, staining and study of bacteria, etc.

102. **Applied Parasitology.** Yr. 2 Hrs. Examination of feces for parasites and ova and of blood smears for parasites of the blood.
103. **Applied Serology.** Yr. 4 Hrs. Agglutination, precipitation, and complement fixation tests in serodiagnosis of syphilis and other diseases.
104. **Clinical Chemistry.** Yr. 3 Hrs. Chemical examination of urine, blood, gastric contents, and spinal fluid for abnormal constituents and increased or decreased amounts of normal constituents.
105. **Electrocardiography.** Yr. 2 Hrs. Study of the electrocardiographic machine and its practical employment on patients.
106. **Metabolimetry.** Yr. 2 Hrs. Study of the metabolism of carbohydrates, proteins, fats, minerals, etc., and the technique of basal metabolism.
107. **Microtechnique.** Yr. 3 Hrs. Histological technique including paraffin, celloidin, and frozen sections with routine and special staining procedures.
108. **Normal Hematology.** Yr. 4 Hrs. Methods of obtaining blood, hemoglobin determinations, enumeration of erythrocytes, leucocytes, and blood platelets; study of stained blood films, etc.
109. **Special Hematology.** Yr. 3 Hrs. Study of blood dyscrasias, hemorrhagic diseases, blood groups, etc.
110. **Record Keeping.** Yr. 2 Hrs. Study of laboratory and hospital forms with proper methods of recording findings and filing laboratory reports.
111. **Urine Analysis.** Yr. 5 Hrs. Clinical examination of normal and abnormal urines including general characteristics, qualitative and quantitative chemical analyses, microscopic studies, renal-function tests, etc.

## **STUDENTS IN MEDICAL TECHNOLOGY**

### **Third Year**

Ackard, Lois Ann .....	Wheeling
Berger, Roberta Francine .....	Clarksburg
DeFranco, Helen Victoria .....	Charleston
Hanley, Joan Delores .....	Mannington
Levine, Esther Sylvia .....	Morgantown
McCulloch, Elizabeth Ann .....	Charleston
Minnick, Mary Lou .....	Morgantown
Mohl, Betty Jeanne .....	Morgantown
Prondfoot, Alice Marie .....	Rowlesburg
Sabo, Gwyndolia Alice .....	Charleston
Shelton, Bryce Cardigan .....	Seth
Wihnoth, Irene Arlene .....	Belington

### **Fourth Year**

Carper, Mary Virginia .....	Sutton
Dennison, Patricia Anne .....	Morgantown
Plesa, Anna Margaret .....	Holliday's Cove
Scott, Carolyn Jane .....	Parkersburg
Witt, Lu Ellen .....	Fairmont

### **Special Students**

Ireland, Elizabeth Ann .....	Fairmont
Peters, John Kenneth .....	Masontown, Pa.

*Edward J. Van Dine*

ANNOUNCEMENTS OF

# The School of Medicine

and the Curriculum in Medical Technology

1950-51 SESSION



WEST VIRGINIA UNIVERSITY BULLETIN

# WEST VIRGINIA UNIVERSITY

MORGANTOWN

ESTABLISHED FEBRUARY 7, 1867

## The Board of Governors

	TERM EXPIRES
THOMAS L. HARRIS, <i>President</i> , Parkersburg .....	1951
WILLIAM G. THOMPSON, <i>Vice-President</i> , Montgomery .....	1955
E. G. OTEY, Bluefield .....	1950
A. C. SPURR, Fairmont .....	1952
K. DOUGLAS BOWERS, Beckley .....	1953
CHARLES E. HODGES, Charleston .....	1954
RAYMOND E. SALVATI, Huntington .....	1956
THOMAS E. MILLSOP, Weirton .....	1957
MRS. GEORGE D. HILL, Camden-on-Gauley .....	1958
IRVIN STEWART, <i>Chief Executive Officer</i> , Morgantown	
CHARLES T. NEFF, JR., <i>Executive Secretary</i> , Morgantown	

The Board of Governors has charge of the educational, administrative, financial, and business affairs of the University and Potomac State School of West Virginia University.

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Issued Monthly

# The School of Medicine

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CHARLES THOMPSON NEFF, JR., A.B., LL.D., *Vice-president of the University*  
EDNA ARNOLD, M.A., *Dean of Women*  
JOSEPH CLAY GUCK, B.A., B.D., *Director of Student Affairs*  
CHARLES EDWARD BUTLER, B.A., B.S. in L.S., *Librarian*  
J. EVERETT LONG, M.A., *Registrar of the University*  
EDWARD JERALD VAN LIERE, B.A., M.S., M.D., Ph.D., Litt.D., F.A.C.P., *Dean and Professor of Physiology*

## THE FACULTY

### PROFESSORS

EDWARD JERALD VAN LIERE, *Professor of Physiology and Dean*  
B.A., M.S., University of Wisconsin, 1915, 1916; M.D., Harvard University, 1920; Ph.D., University of Chicago, 1927; Litt.D., Medical College of Virginia 1948; F.A.C.P.  
GIDEON STANHOPE DODDS, *Professor of Histology and Embryology, and Chairman of Committee on Admissions and Scholarship*  
B.A., M.A., University of Colorado, 1904, 1905; Ph.D., University of Pennsylvania, 1910.  
ROBB SPAULDING SPRAY, *Professor Emeritus of Bacteriology and Public Hygiene*  
B.S., Purdue University, 1914; M.S., Pennsylvania State College, 1917; Ph.D., University of Chicago, 1923.  
SIMON B. CHANDLER, *Professor of Gross Anatomy and Neuro-anatomy*  
A.B., University of Missouri, 1922; A.M., M.D., Northwestern University, 1926, 1927.  
DAVID FIELDING MARSH, *Professor of Pharmacology*  
A.B., West Virginia University, 1939; M.S., Purdue University, 1940; Ph.D., University of California, 1942.  
MILFORD LEROY HOBBS, *Professor of Pathology and Clinical Pathology*  
M.D., Washington University, 1931; Fellow American College of Physicians, Fellow College of American Pathologists, Diplomate, American Board of Pathology.  
DAVID WILMARTH NORTHUP, *Professor of Physiology*  
A.B., Reed College, 1930; A.M., University of Oregon, 1932, Ph.D., University of Illinois, 1935.  
JOHN MADISON SLACK, *Professor of Bacteriology and Public Hygiene*  
A.B., M.S., Ph.D., University of Minnesota, 1936, 1937, 1940.

### ASSOCIATE PROFESSORS

CECIL BENJAMIN PRIDE,\* *Associate Professor of Surgery*  
A.B., Ohio Wesleyan University, 1916; B.S., West Virginia University, 1921; M.D., Western Reserve University, 1923; F.A.C.S.  
JOHN JOSEPH LAWLESS, *Associate Professor of Medicine and Director of University Health Service*  
B.S., M.A., Ph.D., University of Minnesota, 1930, 1931, 1934; M.D., Rush Medical College, 1939.

\*Part time. In private practice.

- CLARK KENDALL SLEETH, *Associate Professor of Medicine and Assistant Director of Health Service*  
A.B., B.S., West Virginia University, 1933, 1935; M.D., University of Chicago, 1938.
- THOMAS WALLEY WILLIAMS, *Associate Professor of Histology and Anatomy*  
B.S., M.S., Ph.D., University of Pittsburgh, 1934, 1937, 1939.
- JOHN CLIFFORD STICKNEY, *Associate Professor of Physiology*  
B.S., Wheaton College, 1933; M.S., University of Washington, 1936, Ph.D., University of Minnesota, 1940.

## ASSISTANT PROFESSORS

- GEORGE RALPH MAXWELL,\* *Assistant Professor of Medicine (Physical Diagnosis)*  
B.S., West Virginia University, 1921; M.D., University of Cincinnati, 1923; F.A.C.P.
- FREDERICK RENDELL WHITTFEY,\* *Assistant Professor of Medicine*  
A.B., Wooster College, 1921; M.D., Western Reserve University, 1925; F.A.C.P.
- ERNEST HARRY LUDWIG, *Assistant Professor of Bacteriology*  
B.S., M.S., Ph.D., University of Pennsylvania, 1937, 1938, 1947.
- JAMES DEWITT LOWELL, *Visiting Assistant Professor of Biochemistry*  
B.S., Ph.D., University of Chicago, 1943, 1949.
- CHARLES A. ZELLER, *Assistant Professor of Psychiatry (Superintendent of Weston State Hospital)*  
B.S., West Virginia University, 1925; M.D., University of Buffalo, 1927.

## INSTRUCTORS

- CARL EDWARD JOHNSON,\* *Instructor in Medicine (Physical Diagnosis)*  
A.B., B.S., West Virginia University, 1923, 1925; M.D., Northwestern University, 1928; F.A.C.P.
- ARCHIE LEMUEL STARKEY, *Instructor in Medicine (Physical Diagnosis) (Superintendent of Hopemont Sanitarium)*  
B.S., West Virginia University, 1924, M.D., University of Arkansas, 1937.
- ISABELLE T. GADZIKOWSKI, M.D., *Instructor in Medicine (Physical Diagnosis) (Physician in Hopemont Sanitarium)*.
- HAROLD HENRY TEITELBAUM, M.D., *Instructor in Medicine (Physical Diagnosis) (Physician in Hopemont Sanitarium)*.
- BETTY STONESTREET GILMORE, *Instructor in Biochemistry*  
B.S., West Virginia University, 1947.
- WILLIAM SAWYERS HEROLD, *Instructor in Medicine (Physical Diagnosis) and Assistant Physician in Health Service*  
A.B., B.S., West Virginia University, 1944, 1945; M.D., Medical College of Virginia, 1946.
- DONALD ATWOOD HERRING, *Instructor in Pharmacology*  
B.S. in Pharmacy, Ohio State University, 1941.
- MAYNARD PRIDE, *Instructor in Surgery*  
A.B., Marietta College, 1935; M.D., Western Reserve, 1939.
- HELEN HOPE HESS, *Instructor in Anatomy*  
B.S., West Virginia University, 1947.
- WILLIAM AUGUST EHRCOTT,\* *Instructor in Pathology*  
B.S., Lebanon Valley College, 1933; M.D., Jefferson Medical College, 1942.

## ASSISTANTS

- MARTHA JANE COYNER, *Assistant in Anatomy*  
B.S., West Virginia University, 1942.
- CHARLES MARION CANBY, *Assistant in Bacteriology*  
A.B., Shepherd College, 1947; M.S., West Virginia University, 1949.
- LELA VIRGINIA STUMP, *Assistant in Pathology*  
B.S., West Virginia University, 1947.

ALLAN FAIRFAX EAKLE, *Assistant in Biochemistry*  
HARRIS HAMILTON BIRD, *Research Assistant in Bacteriology*  
B.S., Quincy College, 1943

## LECTURER

ELDEN BRYANT TUCKER,\* *Lecturer in Pharmacology (Anesthesiology)*  
B.S., West Virginia University, 1919; M.D., University of Cincinnati, 1921.

## TECHNICIANS

PATRICIA ANN DENNISON, *Technician in Pathology*  
B.S., West Virginia University, 1949.  
MIRIAM FRIEDMAN NACHMAN, *Technician in Anatomy and Histology*  
B.S., West Virginia University, 1940.

## CLERICAL PERSONNEL

VIRGINIA LEE STUMP, *Secretary to the Dean*  
LOUISE P. TOOTHMAN, *Secretary of College and Record Clerk*  
MARY JO BLAKE, *Secretary in departments of Bacteriology and Pharmacology* .

## THE UNIVERSITY HEALTH SERVICE

### PHYSICIANS

JOHN JOSEPH LAWLESS, *Director of University Health Service and Associate Professor of Medicine*  
B.S., M.A., Ph.D., University of Minnesota, 1930, 1931, 1934; M.D., Rush Medical College, 1939.  
CLARK KENDALL SLEETH, *Assistant Director of University Health Service and Associate Professor of Medicine*  
A.B., B.S., West Virginia University, 1933, 1935; M.D., University of Chicago, 1938.  
SAMUEL JOHN MORRIS, *Physician and Medical Adviser to the Department of Athletics*  
M.D., University of Maryland, 1912.  
WILLIAM SAWYERS HEROLD, *Assistant Physician and Instructor in Medicine*  
A.B., B.S., West Virginia University, 1944, 1945; M.D., Medical College of Virginia, 1946.  
GEORGE ALEXANDER CURRY,\* *Assistant Physician*  
A.B., B.S., West Virginia University, 1942, 1943; M.D., University of Cincinnati, 1944.  
HUBERT ADAMS SHAFFER,\* *Consulting Radiologist*  
B.S., West Virginia University, 1927; M.D., Medical College of Virginia, 1929.

### NURSES

MARY CATHERINE RATHBUN, R.N., *Nurse in the University Health Service*  
ROBERTA IRENE RIGGS, R.N., *Nurse in the University Health Service*  
ROSE MARIE GERARD, R.N., *Nurse in the University Health Service*  
ETHEL SMITH HURST, R.N., *Nurse in the University Health Service.*  
MARY LEE KEMPER, R.N., *Nurse in the University Health Service*  
BETTY KATHERINE WINKLER, R.N., *Nurse in the University Health Service*

### TECHNICIANS

FABRY LIVINGSTON HAWK, *Chief Technician in the University Health Service*  
Registered Medical Technologist.  
MARGARET ANNE ALLEN, *Technician in the University Health Service*  
B.S., West Virginia University, 1948.

## CLERICAL PERSONNEL

HELEN CLARISSA O'NEILI, *Secretary in the University Health Service*

MARGARET BRODERICK, *Clerk in the University Health Service*

B.S., West Virginia University, 1946.

ETHEL FEATHIER ELLIS, *Receptionist in the University Health Service*

## THE STANDING COMMITTEES

*Executive:* E. J. VAN LIERE (*chairman*), G. S. DODDS, F. R. WHITTLESEY, and C. B. PRIDE.

*Admissions and Scholarship:* G. S. DODDS (*chairman*), S. B. CHANDLER, C. K. SLEETH, and M. L. HOBBS.

*Library:* S. B. CHANDLER (*chairman*), J. C. STICKNEY, C. K. SLEETH, and J. M. SLACK.

*Research, Fellowships, and Grants:* D. F. MARSH, (*chairman*), D. W. NORTHUP, M. L. HOBBS, J. M. SLACK, and E. J. VAN LIERE.

*Seminars:* C. K. SLEETH (*chairman*), J. C. STICKNEY, E. J. VAN LIERE, and E. H. LUDWIG,

*Clinical and Special Facilities:* C. K. SLEETH (*chairman*), C. B. PRIDE, M. L. HOBBS, G. R. MAXWELL, F. R. WHITTLESEY, and J. J. LAWLESS.

*Curriculum:* C. K. SLEETH (*chairman*), E. H. LUDWIG, E. J. VAN LIERE, D. F. MARSH,

*Student Loans and Scholarships:* J. C. STICKNEY (*chairman*), E. J. VAN LIERE, G. S. DODDS, and T. W. WILLIAMS.

*Medical Technology:* M. L. HOBBS (*chairman*), G. S. DODDS, J. M. SLACK, and E. J. VAN LIERE.

*Policy:* Heads of departments and the director of the University Health Service.

*Graduate Study:* J. M. SLACK (*chairman*), D. F. MARSH, and J. C. STICKNEY.



# GENERAL INFORMATION

## THE SCHOOL OF MEDICINE\*

During the years from 1868 to 1912 the University offered courses in pre-clinical medical subjects, the scope and designation of the program changing from time to time. In the earlier years a course was scheduled in anatomy, physiology, and hygiene; and in later years the work had grown to include the first two years of a standard medical curriculum. From 1903 to 1911 the University maintained a College of Medicine, giving the M.D. degree. The first two years were given in Morgantown. Credit for the last two years was accepted from the College of Physicians and Surgeons of Baltimore, to which students transferred at the end of their second year.

The School of Medicine as now organized had its beginning in 1912. Since that date it has given the first two years of the medical curriculum with no provision for students to transfer to any special school for the completion of their work until 1943, when an agreement was made with the Medical College of Virginia.

## MEDICAL CURRICULUM

### FIRST AND SECOND YEARS

The School of Medicine now gives only the first two years of the medical curriculum. It is listed as a Recognized School of Basic Medical Sciences by the Council on Medical Education and Hospitals of American Medical Association. It is also a member of the Association of American Medical Colleges. Inasmuch as only the first two years are given at West Virginia University, students must go elsewhere for the completion of the work for the M.D. degree. There are two possibilities as noted below.

### THIRD AND FOURTH YEARS

*The Medical College of Virginia.* There is an agreement in operation with the Medical College of Virginia at Richmond for the transfer of as many as twenty students upon the completion of their second year at West Virginia University. At the Medical College of Virginia these students pay the same tuition as do residents of Virginia. Diplomas conferring the M.D. degree are issued jointly by the two schools. The benefits of this agreement are available only to students who at the time of entering the medical curriculum had been residents of West Virginia for at least five years.

*Other Medical Schools.* In each class there are also some students who, by private arrangement, transfer to other medical schools of their own choice for the completion of the work.

## THE UNIVERSITY HEALTH SERVICE

The University Health Service, organized as a division in the School of Medicine, provides medical service to all students in the University and supervises health conditions on campus. Each regularly enrolled University student pays a fee which provides for medical consultation and advice from University physicians. A moderate additional charge is made for room calls, X-rays, special laboratory tests, operations, treatment of fractures, intravenous treatment, and drugs furnished by the University Pharmacy. The student's medical fee includes an insurance charge to provide hospitalization for acute illness not to exceed thirty days in a school year. Room charges up to \$5.50 daily and operating room fees are provided for, but professional fees arising out of such hospitalization are not included. All students receive a complete physical examination, including blood tests, urinalysis,

\*For information on Medical Technology see p. 26.

and chest X-ray, during their first semester in the University. In addition, the Health Service provides special examinations to students, to University food handlers, and to others, as may be required for University purposes. The University Pharmacy, operated by the College of Pharmacy, supplies prescribed medication at nominal charges.

The staff of the Health Service includes five physicians, six nurses, and two laboratory technicians. The Departments of Pathology and Bacteriology cooperate in various diagnostic laboratory procedures.

The Health Service occupies a well-designed University Health Center constructed in 1941. The three-story building centrally located on the campus and fronting on College Avenue adjacent to Reynolds Hall, is a T-shaped structure of brick and concrete.

On the first floor are the receiving room, office of the secretary, offices for four physicians, a room for minor surgery, and a treatment room. One room on this floor is assigned to University Pharmacy. On the second floor is the diagnostic laboratory equipped for serological, chemical, bacteriological, and hematological examinations. The X-ray unit, equipped for fluoroscopy and radiography, and with a photo-roentgen unit, is located in rooms of modern design adjacent to the laboratory and conveniently accessible to patients. On the second floor, rooms also are occupied by the Department of Pathology of the School of Medicine. These include a student laboratory, pathological museum, preparation room, stock room and necessary offices and individual laboratories.

The third floor of the Health Center is equipped and operated as an infirmary for students requiring bed care for acute illness. The patients are under the care of University physicians and a registered nurse is in attendance at all times.

## CLINICAL AND SPECIAL FACILITIES

The following institutions and agencies are co-ordinated effectively for the clinical needs of the School of Medicine.

*Hopemont Sanitarium*, located at Hopemont, Preston County, 40 miles from Morgantown, is approved by the American Medical Association for residency. It has 450 beds and is a hospital primarily for pulmonary diseases. A substantial number of beds, however, are set aside for purely medical and surgical cases. By a special arrangement between the superintendent and staff of the hospital and West Virginia University, the School of Medicine has access to the hospital for teaching purposes and the superintendent and members of the staff become University officials. This arrangement provides an excellent affiliation for instruction in examination of the sick, with particular reference to pulmonary diseases.

By special arrangements, students of the School of Medicine also have access to clinical facilities of the following institutions for instruction in physical diagnosis, medicine, and surgery: Monongalia General Hospital, with a bed capacity of 100; and Vincent Pallotti Hospital, a private general hospital with a bed capacity of 90.

*Intramural Clinics*. With the cooperation of members of the local medical profession, ambulatory cases are available for examination and demonstration.

*Autopsy Service and Pathological Museum*. Under an agreement with the coroner of Monongalia County, the Department of Pathology of the School of Medicine performs and records coroner's autopsies. Autopsies are available also for teaching purposes from Vincent Pallotti Hospital, Monongalia General Hospital, and Hopemont Sanitarium. This arrangement materially augments the pathological museum, which already numbers about 1,000 specimens, and affords opportunity for teaching in gross pathology and medical jurisprudence, besides assuring authoritative records for medico-legal purposes.

## BUILDINGS AND EQUIPMENT

The three-story Medical Building furnishes room for most of the School of Medicine. On the first floor are the offices of the Dean, a general lecture room, a reading and study room, and the pharmacological laboratory. On the second

floor are laboratories for bacteriology and physiology. On the third floor are laboratories for gross microscopic anatomy, a large lecture room, and the X-ray room. All departments have appropriate offices, technical rooms, and storage space. Embalming and cadaver storage rooms are in the basement. Quarters for experimental animals are provided in separate buildings.

The biochemical laboratory occupies rooms in Chemistry Building. The department office is Room 430; communicating with it are three rooms used as stock and preparation rooms and for research.

The Department of Pathology occupies rooms on the second floor of the University Health Center; a good-sized laboratory-lecture room and the necessary rooms for a museum, preparations, storage, offices, and private laboratories.

## LIBRARY

The Medical Library is not organized as a separate unit but is housed in the University Library, where publications of prime importance to the students and faculty of the School of Medicine are to be found in close proximity to related biological and chemical publications. Purely chemical works, many of which are of interest in medicine, are housed in the Chemistry Building which is adjacent to the Library. Additional current issues of essential medical journals and periodicals of general scientific interest are conveniently available in the students' lounge in the School of Medicine.

There are about 18,000 catalogued volumes in the Library which constitute the medical collection. Roughly half of these are bound volumes of periodicals; the remainder are textbooks and monographs concerned with pre-clinical fields for the most part but comprising also better representative works in internal medicine, surgery, gynecology, obstetrics, public health, hygiene, and history of medicine. Certain other publications are available on bibliofilm, for which reading facilities are offered in the Library and in the Department of Bacteriology. The Library has a subscription list of over 125 leading medical journals. Various departments of the School of Medicine receive a number of special journals, and the Department of Bacteriology has accumulated a collection of over 8,000 papers on anaerobic bacteria in the form of reprints, photostatic copies, and bibliofilm copies.

The Library maintains an inter-library loan system whereby materials not contained in the Library may be borrowed from the Surgeon General's Library, Library of Congress, or other libraries. Complete sets of various abstracting journals, including the Quarterly Cumulative Index Medicus, may be found in the general reading room of the Library. Library service is available to physicians of the state through loans of publications or through the furnishing of photostatic copies of articles.

A committee from the faculty of the School of Medicine is active in the interests of the Medical Library.

## LIVING ACCOMODATIONS

The University maintains three large dormitories, one for men and two for women. Cost of room and board in all dormitories ranges from \$459 to \$549 per academic year of 9 months. The University reserves the right to change these rates as necessity demands. For information as to accommodations and rates, address the office of the Business Director of Residences, West Virginia University, Morgantown.

Medical students, in the main must find board and lodging in private dwellings in Morgantown, where the rates for accommodations suitable for medical students are usually somewhat higher than in the dormitories. For further information concerning houses on the approved list, men should address the Office of Off-Campus Housing, Room 207, Administration Building, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, West Virginia University, Morgantown.

## COST OF A YEAR'S WORK

Textbooks and supplies will cost you about \$75 to \$150 per academic year. Registration fees for residents are \$258; for nonresidents, \$408 per academic year. There is an annual breakage deposit of \$10, part of which is usually returned at the end of the year. The total legitimate cost of a nine-month session for medical students in residence will range from \$1,000 to \$1,500 exclusive of traveling expenses. The School of Medicine furnishes microscopes for students without charge.

## LOANS

It frequently happens that students otherwise well qualified for the study of medicine are short of funds to defray necessary expenses. For the assistance of such students certain loans are available, some specifically for medical students, others available to students of all colleges in the University. For information about loans, inquiries should be made to Director Joseph C. Gluck, Committee on Prizes, Scholarships, and Loan Funds, West Virginia University, Morgantown.

## SEMINAR

A seminar is attended by faculty and students of the School of Medicine on alternate Friday afternoons at 4 p.m. The program consists of presentation of various subjects of general interest, followed by discussion. At these meetings papers are presented by members of the faculty, the student body, and members of the medical profession not connected with the School. The papers deal with both preclinical sciences and various phases of the practice of medicine.

## ORGANIZATIONS AND LECTURESHIPS

### ALUMNI ASSOCIATION

Graduates of the School of Medicine have a School of Medicine Alumni Association, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among its members and the medical profession generally.

### JOHN NATHAN SIMPSON LECTURESHIP

In 1933 the West Virginia chapter of Phi Beta Pi medical fraternity instituted the John Nathan Simpson Lectureship, honoring Dr. John N. Simpson, first dean of the School of Medicine. An annual lecture is given by someone distinguished in medical research or practice.

## ADMISSION REQUIREMENTS

Requirements for admission to the Medical School of West Virginia University conform to standards of the Association of American Medical Colleges and the Council on Medical Education and Hospitals of the American Medical Association; however, they exceed minimum standards of those associations.

All applications for admission are passed upon by the Committee on Admissions of the Medical School, composed of four members of the medical faculty. Admission is by recommendation of this committee and with the approval of the Dean of the School.

The number of students that can be accommodated is strictly limited. In recent years the number of applicants has been so great that only residents of West Virginia could be considered, and of these only a small percentage could be admitted. Those admitted are the applicants who, in the judgment of the Committee on Admissions, are best qualified for the study of medicine, and who give highest promise of full service in the practice of medicine. Recently the number of applicants has been so great that the School could not accommodate all who were reasonably well qualified.

Any applicant who is refused admission or who fails to enroll after acceptance, and may wish consideration for a subsequent year, must reapply in the regular manner.

To be eligible for admission, the applicant must present credits equivalent to the work of a standard four-year high school and at least three years of work in an acceptable college. Credits submitted by applicants for work done elsewhere than in West Virginia University are evaluated by the Registrar of the University and must meet the general standards set by the University for acceptance of credits by transfer.

A detailed statement of subject requirements follows:

For admission to the Medical School the applicant must have credit for at least 15 units of high-school work. This must include four units of English,<sup>1</sup> two of mathematics (algebra, one, and plane geometry, one), and other subjects as specified in the general admission requirements of the University. The School of Medicine strongly urges two units of Latin.

The applicant must have credit for at least three years in a college of recognized standing. This credit must total at least 90 semester hours exclusive of military and physical education.

The council on Medical Education and Hospitals of the American Medical Association publishes a list of about seven hundred colleges which it approves for premedical education. Medical schools must give preference to applicants from institutions on this list. Schools may accept students from other institutions only when they show evidence of superior ability, as indicated by adequate credits and superior grades. Students planning premedical work should consult the Medical School or other authentic source for information about approved colleges.

### 1. Subject Requirements

The following subjects and hours are the minimum requirements for admission. They must be met in full before enrollment in the Medical School.

*English, composition and rhetoric* ..... 6 hr.

*Biological Sciences* ..... 12 hr.

Should be mainly zoology and should include an advanced course in comparative anatomy of the vertebrates. Additional work is desirable and should include genetics and embryology. The following are not acceptable as part of the 12-hour requirement: human anatomy, histology or physiology, or medical bacteriology.

*Chemistry* ..... 20 hr.

Must include one year of inorganic chemistry; 6 hours of qualitative and quantitative analysis; and 6 hours of organic chemistry (covering aliphatic and aromatic chemistry). Physical chemistry is desirable. Physiological chemistry is not acceptable as part of the required 20 hours.

*Physics* ..... 8 hr.

*Psychology* ..... 3 hr.

*A modern foreign language* ..... 12 hr.

German or French preferred. Must be in one language. Two units in high school are accepted as 6 hours of the required 12 hours.

*Mathematics:* College algebra and trigonometry, while not absolute requirements, are looked upon with high favor by the Committee on Admission. These subjects should be taken in the freshman premedical year because of their great usefulness in the study of physics and chemistry. Analytical geometry and calculus are of advantage to those students who can include them in their program.

*Latin:* Either high-school or college Latin is strongly urged. It will be of great value.

<sup>1</sup>Students who present only 3 units of English may satisfy this requirement by making a satisfactory grade on the English Placement Test, or by successfully completing English 1C, English Composition.

*Other subjects:* The following are recommended as electives:

Art (drawing), botany, economics, geology, Greek, history, speech political science, and sociology. The premedical student should secure a broad training, including adequate work outside the required scientific fields.

## 2. *Excellence of Premedical Scholarship*

The quality of premedical scholarship is the best single criterion of probable success in the study of medicine. For this reason applicants with higher grades are given preference. Students with "average" premedical grades have only a small chance of doing satisfactory work in medical school even if admitted. An excess of credit hours or advance degrees does little to offset the disadvantage of low grades in securing admission to medical schools.

## 3. *Medical College Admission Test*

The Association of American Medical Colleges sponsors the Medical College Admission Test which is administered by the Educational Testing Service of Princeton, New Jersey. Future tests are announced for Saturday, May 13 and Monday, November 6, 1950. The earlier date is preferable for applicants for 1951. Premedical advisers will furnish information about testing centers on request. Students with good records in this test have a better chance for admission than those with low scores or those who have not taken the test.

## 4. *Residence*

Preference is given to residents of West Virginia. For several years resident applicants have been so numerous that there have been no places available for nonresidents.

## 5. *Personal Attributes*

Careful consideration is given to those personal qualifications which have a bearing upon fitness of the applicant for the study and practice of medicine. Students must be at least 18 years of age at the time of entrance to the Medical School. Persons who have been out of college for some years, or who are several years older than the average applicant, are admitted only when they show unmistakable evidence of superior ability and training.

## 6. *Previous Failures*

Applicants who have been subject to suspension from this or other medical schools can be admitted only in exceptional cases, when the Committee on Admissions considers such readmission justified.

## 7. *When to Apply for Admission*

Application for admission in September 1951 should be made promptly upon completion of the school year 1949-50 (June 1950). The applicant should at once request the registrar of each college he has attended to send transcript of his work directly to the Medical School. Applications will be considered until the class is filled, but early application is advantageous.

## 8. *How to Apply for Admission*

Application for admission must be made upon blanks which may be obtained from the Dean's office upon request. A small unmounted photograph must accompany the application.

## 9. *Credentials*

Unless the applicant is a student at West Virginia University, he must ask the registrar of each college he has attended to send, directly to the School of Medicine, an official transcript of his work. (The University cannot accept transcripts sent by the applicant himself). Records should include a statement of work in progress, and work subsequently completed should be promptly reported to the Medical School.

## 10. *Recommendations*

Applicants who are not students at West Virginia University should request the premedical adviser or, if there is none, two instructors in different science departments to send letters of recommendation to the Medical School.

## 11. *Notification of Applicants*

All applicants will be informed of the action of the Committee on Admissions as promptly as possible after decisions are reached. The earliest acceptances will probably be issued in November or December.

## PRE-MEDICAL CURRICULA

In keeping with the need for good premedical training, West Virginia University, through its premedical adviser, maintains careful supervision over those students who have declared their intention of preparing for the study of medicine. It is not the policy of West Virginia to give special premedical courses but rather to maintain a well-balanced curriculum composed of courses regularly scheduled in various departmental offerings.

This curriculum does not involve extensive specialization in any subject. There are no majors and minors. High specialization in one subject probably is not the best preparation for the average student. The curriculum includes as requirements those subjects which are needed for entrance to medical schools, but it also allows wide latitude in choice of electives in other departments so that the student may gain some insight into the various fields of knowledge in which all educated persons should be versed.

Another premedical curriculum is offered by the College of Pharmacy which enables students to prepare for entrance to the School of Medicine during three years in the College of Pharmacy. At the end of two years in the School of Medicine, the student receives the B.S. degree in pharmacy. For information concerning this course, inquiries should be addressed to Dean of the College of Pharmacy, West Virginia University, Morgantown, West Virginia.

## REGISTRATION

Persons who are not registered as students in the University and who are not members of the administrative or teaching staffs shall not be admitted to regular attendance in medical school classes.

Students in other divisions of the University who wish to elect courses in the School of Medicine must satisfy the prerequisites for such courses and must receive permission from the Scholarship Committee and the professor in charge of the course.

All medical students are expected to register at the Medical Building on the days set apart for registration at the beginning of each semester as announced in the calendar on page 30 of the bulletin.

No student will be permitted to register in the School of Medicine after the first week of classes.

## DEPARTURE FROM SCHEDULED WORK

Students must register for all prescribed courses for each semester except by special permission from the Scholarship Committee of the School of Medicine. This permission is not valid until it has been reported to the Registrar for record.

## IMMUNIZATION

The School of Medicine requires that during the first semester of the first year all medical students must complete certain prescribed immunizations and diagnostic procedures. These are administered without charge by the University Health Service.

## WITHDRAWALS

A student who wishes to withdraw during the term should do so in regular manner. Consult the Dean's office for steps which must be taken.

## FEES

All fees are due and payable at the office of the Comptroller on the day of registration.<sup>2</sup> Students registering in the School of Medicine pay the following:

### ADVANCE DEPOSIT FEE

Each applicant is required to make a deposit of \$25 before his name is entered upon the official list of registration in the School of Medicine. If the applicant enrolls in the School of Medicine this sum is applied to the tuition of the first semester. If the applicant fails to enter the School of Medicine this deposit fee is forfeited by the applicant. The deposit paid by students under the G.I. Bill of Rights will be refunded after the full tuition has been paid.

### TUITION AND OTHER FEES

	Residents <sup>4</sup>	Non-Residents <sup>4</sup>
Full-time students <sup>3</sup> (per semester) Tuition . . . . .	\$ 87.00	\$162.00
University Fees . . . . .	42.00	42.00
Total . . . . .	\$129.00	\$204.00
Part-time students (per semester hour) <sup>5</sup> . . . . .	8.00	12.50

Special fee for students not regularly enrolled in the School of Medicine or the College of Pharmacy, \$4 per credit hour in addition to the fee charged in the college or school in which they are registered.

Breakage deposit (for year) . . . . . \$ 10.00

Breakage deposit for University students not regularly enrolled in medical school, for one laboratory course, \$5, and for more than one course, \$10.

### SPECIAL FEES

Late registration <sup>5</sup> . . . . .	\$ 2.00
Graduation fee <sup>6</sup> . . . . .	10.00
Student's record fee <sup>7</sup> . . . . .	1.00

<sup>2</sup>Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester shall be dropped from the rolls of the University, and the Registrar shall notify their instructors that their class cards are to be withdrawn.

<sup>3</sup>A full-time student is one who is registered for 10 or more semester hours during a semester. A part-time student is one who is registered for fewer than 10 semester hours per semester.

<sup>4</sup>No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding his registration. No nonresident student may establish domicile in this State, entitling him to reductions or exemptions of tuition, merely by his attendance at the University. A minor student whose parents have become domiciled in West Virginia after the student's original registration in the University will be deemed to have the domicile of his parents and be entitled to pay resident fees thereafter. Moreover, any student who has originally paid nonresident fees may become entitled to pay resident fees, if after an interim of nonattendance or otherwise he has established a valid legal domicile in this State, at least twelve months prior to his re-registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

<sup>5</sup>Charged to students who do not procure class cards during the regular registration days set forth in the calendar on page 30.

<sup>6</sup>The graduation fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.



## REFUNDING OF FEES

Fees will be refunded according to the following schedule to students who withdraw regularly from the University.

	Amount of Refund
During the first and second weeks .....	All fees less \$3.00
During the third and fourth weeks .....	80% of fees
During the fifth and sixth weeks .....	60% of fees
During the seventh and eighth weeks .....	40% of fees
Beginning with ninth week .....	No refunds allowed

## STANDARDS OF SCHOLARSHIP

### MARKING SYSTEM

- A—excellent—given only to students of superior ability and attainment
- B—good—given to those students who are well above average but who are not in the highest group
- C—fair—average students
- D—poor but passing
- E—condition<sup>8</sup>
- F—failure
- I—incomplete<sup>9</sup>
- W—all withdrawals prior to end of second week following date for mid-semester reports
- WP—withdrew passing
- WF—withdrew failing
- FIW—failure because of irregular withdrawal

Average grades are computed upon all courses for which the student has registered, except for courses with grades of W and WP. The grade-point values per semester hour are: A—4, B—3, C—2, D—1; E, I, F, WF, FIW—0. When grades of E or I become converted into grades carrying credit, the average is calculated on the basis of the new grades.

When grades transferred from other institutions are expressed in a system different from the one used at West Virginia University, the values are adjusted to give an equivalent measure of accomplishment.

### REMOVAL OF CONDITIONS

Examinations for removal of conditions incurred during the first semester will be held during the week following Easter vacation. Examinations for conditions incurred during the second semester of the first year will be held during the first day of registration in September, in order that eligibility of students to enter the second year may be determined.

Examinations for the removal of conditions incurred during the second semester of the second year will be held at dates determined by agreement between the instructor concerned and the Scholarship Committee.

Before these dates, students who wish to take the examinations should make application to the professor concerned.

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<sup>7</sup>One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

<sup>8</sup>A mark of "E" not removed within the following semester becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship. No grade higher than "C" shall be recorded for the removal of a condition.

<sup>9</sup>If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone completion of the work is obtained from the Committee on Scholarship.

## PROMOTIONS AND SUSPENSIONS

The Committee on Scholarship of the School of Medicine is responsible for administration of the following rules. Exceptions may be made only on recommendation of this Committee. The applications of rules on suspension is not automatically changed by removal of conditions or by the repetition of courses in other medical schools. Permission for repetition of work in this medical school may be granted only by the Scholarship Committee.

1. Students must register for all courses scheduled for each semester.
2. A student who does not make passing grades in at least half of the registration hours in any semester is automatically suspended.
3. A student who during any two consecutive semesters does not attain a grade-point average of 1.5 for all courses for which he is registered, is thereby automatically suspended even though he may pass in all courses. (For grade-point values, see page 15.)
4. No student will be permitted to register for work of the second year until all courses for the first year have been successfully completed.

## DEGREES

The School of Medicine gives no degree in medicine except in cooperation with the Medical College of Virginia, as noted on page 7.

Upon completion of the second year in the School of Medicine, students receive the *Bachelor of Science* degree. At the end of the first year, those students who have met certain requirements of the College of Arts and Sciences in West Virginia University receive the *Bachelor of Arts* degree.

The *Master of Science* degree is offered by certain departments of the School of Medicine. Properly qualified University graduate students are eligible. Medical students may work toward this degree by study during four summer terms (two full summers.) For fuller information consult the Chairman of the Committee on Graduate Work in the School of Medicine or see the *Announcements of the Graduate School*.

# COURSES OF INSTRUCTION

For convenience each course is designated by the name of the department and the number of the course. The plan for numbering courses in West Virginia University is as follows:

Courses 1 to 99—courses primarily for freshmen and sophomores.

Courses 100 to 199—courses open to juniors and seniors.

Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduates only.

The following abbreviations are used in the announcements of courses:

I—a course offered during the first semester.

II—a course offered during the second semester.

I, II—a semester course offered each semester.

Yr.—a continuous course extending through two semesters.

S—a course offered during the summer terms.

hr.—number of semester hours credit per course.

Conc.—concurrent.

NOTE—Courses marked “\*” are required of first-year students; those marked “†” are required of second-year students.

In addition to required courses there are listed some elective courses for the benefit of other University students who may need them. They are given only when, in the opinion of the department concerned and of the Dean, it is considered advisable. If there should arise a demand for any of these courses, the School of Medicine will try to meet the need, but the schedule will be contingent upon the extent to which staff members are occupied with the required medical courses. For full information see *Announcements of the Graduate School*.

## GROSS ANATOMY AND NEUROANATOMY

Professor CHANDLER; Associate Professor WILLIAMS; Instructor HESS; Assistant COYNER

- 201.\* GROSS ANATOMY. I. 6 hr. PR: Zoology 2, Zoology 231 (Comp. Anatomy) desirable. Lecture, 2 hr. per week; lab., 8 hr.
- 202.\* GROSS ANATOMY. II. 4 hr. PR: Anatomy 201. Continuation of Anatomy 201. Lecture, 2 hr. per week; lab., 6 hr.
- 203.\* NEUROANATOMY. II. 4 hr. PR: Histology 211; Anatomy 201. Lecture, 2 hr. per week; lab., 6 hr.
- 204.† APPLIED ANATOMY. II. 2 hr. PR: Anatomy 201, 202, 203, and Embryology 212. Lecture, 2 hr. per week; lab., 4 hr. during first half of semester.
- 206. ANATOMY OF THE SYMPATHETIC NERVOUS SYSTEM. I or II. 2-5 hr. Hours to be arranged. Open to properly qualified students.
- 207. APPLIED ANATOMY OF THE PELVIS AND PERINEUM. I or II. 2-5 hr. Hours to be arranged. Open to properly qualified students.
- 301. ADVANCED ANATOMY. I or II. 2-5 hr. Hours to be arranged. Open to properly qualified students.

## HISTOLOGY AND EMBRYOLOGY

Professor DODDS; Associate Professor WILLIAMS; Assistant COYNER

- 211.\* HISTOLOGY. I. 6 hr. PR: Zoology 1, 2 or acceptable substitute. Histological structure and elementary embryology of tissues and organs. Lecture, 3 hr. per week; lab., 9 hr.

- 212.\* HUMAN EMBRYOLOGY. II. 2 hr. PR: Histology 211 and Anatomy 201 (Human Anatomy). Comprehensive survey of human development in relation to gross and microscopic structure. Lecture, 2 hr. per week.
216. THE HISTOLOGY AND DEVELOPMENT OF THE SKELETAL SYSTEM. I or II. 2-5 hr. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature.
217. ADVANCED EMBRYOLOGY. I or II. 2-5 hr. Topics to be chosen to meet special needs of students. Hours to be arranged. Open to properly qualified students.
311. RESEARCH IN MICROSCOPIC OR DEVELOPMENTAL ANATOMY. I or II or Yr. 2-5 hr. Hours to be arranged. Open to properly qualified students.

## BACTERIOLOGY AND PUBLIC HYGIENE

Professor SLACK; Assistant Professor LUDWIG; Assistant CANBY

220. PATHOGENIC BACTERIOLOGY. I, S. 5 hr. PR or Conc.: Chemistry 131 (Organic Chemistry). For students in Medical Technology and Pharmacy. Detailed study of microorganisms with emphasis on those causing human diseases. Lecture, 2 hr per week; lab., 8 hr. Graduate students required to do 1 hr. additional work per week for 5 hr. credit.
- 221.\* MEDICAL BACTERIOLOGY. II. 6 hr. PR or Conc.: Chemistry 233, 238 (Organic Chemistry), Biochemistry 231 desirable. Detailed study of pathogenic microorganisms, including morphology, physiology, identification and mechanisms of disease production, as well as response of the body to bacterial diseases. Lecture, 3 hr. per week; lab., 9 hr.
- 222.\* MEDICAL BACTERIOLOGY. II. 6 hr. PR or Conc.: Chemistry 233, 238 (Organic principles of public health. Lecture 2 hr. per week.
224. DIAGNOSTIC BACTERIOLOGY. I, II, S. 3 hr. Hours to be arranged. PR: Bacteriology 221 or equivalent. Application of cultural, serological and animal methods as aids to the diagnosis of human diseases.
- 226, 227. SPECIAL PROBLEMS IN BACTERIOLOGY. I, II, S. 2-5 hr. per semester. Hours to be arranged. PR: Bacteriology 221 or equivalent.
- 320, 321. ADVANCED BACTERIOLOGY. I, II, S. 2-5 hr. per semester. Hours to be arranged. PR: Bacteriology 221 or equivalent. Advanced theoretical and practical studies in the fields of bacterial physiology, immunology, fungi, rickettsia, and viruses. Graduate students only.
- 323, 324, 325, 326. RESEARCH IN BACTERIOLOGY. I, II, S. 1-6 hr. per semester. Hours to be arranged. PR: Bacteriology 221, 320 or equivalent.

## BIOCHEMISTRY

Assistant Professor LOWELL; Instructor GILMORE; Assistant EAKLE

- 139 or 239. GENERAL BIOCHEMISTRY. II. 4 hr. inorganic and organic chemistry. Quantitative analysis desirable. For students in Home Economics and Medical Technology. Open to other qualified students. Graduate students required to do 1 hr. additional work per week for 4 hr. credit.
- 231.\* BIOCHEMISTRY. I. 7 hr. PR: Chemistry 233, 238 (Organic Chemistry). Lecture, 4 hr. per week; lab., 9 hr.
237. SEMINAR IN BIOCHEMISTRY. Yr. 2 hr. PR or Conc.: Biochemistry 231. Presentation and discussion of special topics.

- 330, 331. ADVANCED BIOCHEMISTRY. I, II, S. 2-5 hr. Arranged. PR: Biochemistry 231 or equivalent. Emphasis on biochemical methods.
- 333, 334, 335, 336. RESEARCH IN BIOCHEMISTRY. I, II, S. 1-6 hr. Arranged. PR: Biochemistry 231 or equivalent.

## PHYSIOLOGY

Professors NORTUP and VAN LIERE; Associate Professor STICKNEY

141. ELEMENTARY PHYSIOLOGY. II. 4 hr. PR: Biology I, 2 or Zoology 1, 2, Chemistry 131 (Organic Chemistry) (or Conc.) For students in Pharmacy and Medical Technology. Lecture, 3 hr. per week; lab., 3 hr.
- 242.\* PHYSIOLOGY. II. 3 hr. PR: Zoology 231 (Comparative Anatomy), Biochemistry 231. Physiology of muscle and nervous system. Lecture, 2 hr. per week; lab., 3 hr.
- 243.† PHYSIOLOGY. I. 7 hr. PR: same as for Physiology 242. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, special senses. Lecture, 5 hr. per week; lab., 6 hr.
- 244, 245. SPECIAL TOPICS. Yr. 2-5 hr. PR: Physiology 242 or 243.
246. SEMINAR IN PHYSIOLOGY. No credit.
- 340, 341. ADVANCED PHYSIOLOGY OF CIRCULATION AND RESPIRATION. Yr. 2-5 hr. Hours to be arranged. PR: Physiology 243. Historical review, advanced topics and latest developments in the physiology of circulation and respiration.
342. PHYSIOLOGY OF GASTRO-INTESTINAL SYSTEM. II. 2-5 hr. Hours to be arranged. PR: Physiology 243. Historical review, advanced topics and latest developments in the physiology of the digestive tract.
- 343, 344. NERVOUS PHYSIOLOGY AND SPECIAL SENSES. Yr. 2-4 hr. Hours to be arranged. PR: Physiology 242 and 243 or Zoology 238, Psychology 1 or Neuroanatomy 203. Historical review, advanced topics and latest developments in the physiology of the nervous system and the organs of special sense.
345. ENDOCRINOLOGY. I. 2-5 hr. Hours to be arranged. PR: Physiology 243. Historical review, advanced topics and latest developments in physiology of the endocrines.
- 346, 347, 348, 349. RESEARCH IN PHYSIOLOGY. Yr. 1-6 hr.

## PATHOLOGY

Professor HOBBS; Instructor EHRCOTT; Assistant STUMP

151. CLINICAL LABORATORY DIAGNOSTIC METHODS. II. 4 hr. Study of blood, exudates, transudates, gastric contents, urine, etc. Lecture, 2 hr. per week; lab., 6 hr. Required of students in Medical Technology. Other students as approved by department.
- 251.‡ GENERAL AND TUMOR PATHOLOGY. I. 7 hr. PR: approval of department head. Includes both gross and microscopic studies with demonstrations. Lectures, 4 hr. per week; lab., 10 hr.
- 252.‡ SPECIAL PATHOLOGY. II. 2 hr. PR: approval of department head. A study of special diseases with gross and microscopic specimens from selected autopsies. Lecture, 1 hr., lab., 2 hr. per week during first half of semester; lecture, 2 hr. per week, lab., 2 hr. during second half of semester.

- 254.† CLINICAL PATHOLOGY. II. 3 hr. PR: approval of department head. A laboratory course in blood, gastric contents, urine, etc., and their pathological and clinical significance. Lecture, 2 hr. per week, lab., 4 hr. during first half of semester; lecture, 3 hr. per week, lab., 7 hr. during second half of semester.
256. ADVANCED PATHOLOGY. I or II. 3 hr. PR: Pathology 251. Microscopic and gross specimens from selected autopsies. Open to properly qualified students.
351. EXPERIMENTAL PATHOLOGY. I or II. 2-5 hr. Hours to be arranged. Open to properly qualified students.

## PHARMACOLOGY

Professor MARSH; Instructor HERRING; Lecturer TUCKER

- 262.† PHARMACODYNAMICS I. 3 hr. PR: Physiology 141 or 242. Lecture, 3 hr. per week. The mechanism of action of drugs on living things. The fundamental relationships between drugs and drug action.
- 263.† MEDICAL PHARMACOLOGY. II. 4 hr. PR: Pharmacology 262. Lecture, 4 hr. per week, lab., 6 hr. first half of semester; lecture, 3 hr. per week, lab., 3 hr. second half of semester. The action of drugs commonly used clinically for man and animals.
- 264.† CLINICAL ANESTHESIOLOGY. II. No credit. PR: registration in Pharmacology 263. 1 hr. per week second half of semester. Practical demonstrations of anesthesia.
266. BIOCHEMORPHOLOGY. II. 2 hr. PR: Pharmacology 262, or Chemistry 238 or 277. Relation between chemical constitution and physiological action of medical agents. Lecture.
- 360, 361. BIOASSAY AND COMPARATIVE PHARMACOLOGY. I, II, S. 3 hr. per semester. PR: Pharmacology 262; or Chemistry 238 or 277 and Histology 211; or Pharmacy 110. Cellular pharmacodynamics and comparative mammalian pharmacology. Species differences in response to drugs. Development of technique in bioassays employed for control by the pharmaceutical industry.
- 362, 363. ADVANCED PHARMACOLOGY. I, II, S. 2-5 hr. per semester. Hours to be arranged. PR: Pharmacology 360. Rational investigation of new drugs and comparison with presently used clinic drugs.
364. TOXICOLOGY. I, II, S. 1 hr. PR: graduate status in pharmacology or chemistry. Toxic effects of industrial chemicals and drugs. Allowable concentrations in industry, and antidotal measures.
365. ANESTHESIOLOGY. I, II, S. 3 hr. PR: Physiology 243. Production of surgical anesthesia in man. General anesthetic agents and procedures, additional agents for proper control of anesthesia, and care of the anesthetized individual.
- 366, 367, 368, 369. RESEARCH IN PHARMACOLOGY. I, II, S. 1-6 hr. per semester. PR: graduate status in physiology, chemistry, or agriculture. Determination of biological activity or toxicity of chemicals that may be used for drugs, solvents, insecticides, or poisons.

## MEDICINE

Associate Professors SLEETH and LAWLESS; Assistant Professors MAXWELL, WHITTLESEY, and ZELLER; Instructors JOHNSON, HEROLD, STARKEY, TEITELBAUM, and GADZIKOWSKI

- 271.† PHYSICAL DIAGNOSIS. Yr. 3 hr. Lecture, 1 hr. per week during first semester;

lecture, 1 hr. per week, lab., 2 hr. during first half of second semester; lecture, 2 hr. per week, practical work with patients, 2 hr. during second half of second semester. Hospital clerkship at Hopemont Sanitarium, 1 week.

- 272.† INTRODUCTORY MEDICINE. Yr. 3 hr. Medical clinic—demonstration of clinical cases, 2 hr. per week during first semester; lecture, 2 hr. per week during first half of second semester; lecture, 2 hr. demonstration of clinical cases, 2 hr. per week during second half of second semester. Hospital clerkship at Hopemont Sanitarium, 1 week.
- 273.† PSYCHOBIOLOGY. I. 1 hr. Introduction to the study of human personality, normal and abnormal. Lecture, 1 hr. per week.
- 274.† BIostatISTICS. I. 1 hr. Planned to aid in the understanding of the statistical methods commonly used in medical and biological work, and in the evaluation of experimental data in these fields. Lecture, 1 hr. per week.

## HISTORY OF MEDICINE

Professor CHANDLER

- 275.† HISTORY OF MEDICINE. II. No Credit. A brief history of the development of the science and art of medicine. Lecture, 2 hr. per week.

## INTRODUCTORY SURGERY

Associate Professor C. B. PRIDE; Instructor M. PRIDE

- 281.† PRINCIPLES OF SURGERY. II. 2 hr. Lecture, 2 hr. per week during the first half of semester; lecture, 2 hr. per week during second half of semester, demonstrations of clinical cases and operative technique, 2 hr.

## OBSTETRICS

Professor VAN LIERE

- 291.† OBSTETRICS. I. 2 hr. PR: Anatomy 201, 202 (Human anatomy), Physiology 242, 243, and Pathology 251. An introductory course in obstetrics. Lecture, 2 hr. per week.

# SCHEDULE OF COURSES FOR 1949-50

COURSE	HR. PER WEEK			HR. PER SEMESTER			SEMESTER HOURS' CREDIT
	Lect	Lab.	Total	Lect	Lab.	Total	
FIRST YEAR — FIRST SEMESTER							
Gross Anatomy 201 .....	2	8	10	32	128	160	6
Histology 211 .....	3	9	12	48	144	192	6
Biochemistry 231 .....	4	9	13	64	144	208	7
FIRST YEAR — SECOND SEMESTER							
Gross Anatomy 202 .....	2	6	8	32	96	128	4
Neuroanatomy 203 .....	2	6	8	32	96	128	4
Embryology 212 .....	2	0	2	32	0	32	2
Medical Bacteriology 221 .....	3	9	12	48	144	192	6
Physiology 242 .....	2	3	5	32	48	80	3
SECOND YEAR — FIRST SEMESTER							
Hygiene 222 .....	2	0	2	32	0	32	2
Physiology 243 .....	5	6	11	80	96	176	7
Gen. and Tumor Pathology 251 .....	5	9	14	80	144	224	7
Pharmacodynamics 262 .....	3	0	3	48	0	48	3
Physical Diagnosis 271 .....	1	0	1	16	0	16	*
Introductory Medicine 272 .....	0	2	2	0	32	32	*
Psychobiology 273 .....	1	0	1	16	0	16	1
Biostatistics 274 .....	1	0	1	16	0	16	1
SECOND YEAR — SECOND SEMESTER, FIRST HALF							
Applied Anatomy 204 .....	2	4	6	16	32	48	2†
Special Pathology 252 .....	1	2	3	8	16	24	§
Clinical Pathology 254 .....	2	4	6	16	32	48	§
Medical Pharmacology 263 .....	4	6	10	32	48	80	§
Physical Diagnosis 271 .....	1	2	3	8	16	24	§
Introductory Medicine 272 .....	2	0	2	16	0	16	§
History of Medicine 275 .....	1	0	1	8	0	8	0
Surgery, Principles of 281 .....	2	0	2	16	0	16	§
Obstetrics 291 .....	2	0	2	16	0	16	§
SECOND YEAR — SECOND SEMESTER, SECOND HALF							
Special Pathology 252 .....	2	2	4	16	16	32	2
Clinical Pathology 254 .....	3	7	10	24	56	80	3
Medical Pharmacology 263 .....	3	5	6	24	24	48	4
Clinical Anesthesiology 264 .....	1	0	1	8	0	8	0
Physical Diagnosis 271 .....	2	2	4	16	16	32	3
Introductory Medicine 272 .....	2	2	4	16	16	32	3
History of Medicine 275 .....	1	0	1	4	0	4	0
Surgery, Principles of 281 .....	2	2	4	16	16	32	2
Obstetrics 291 .....	2	0	2	16	0	16	2

\*Course continues throughout the year.

†Course completed at mid-semester.

§Course continues throughout the semester.



## DAY-AND-HOUR SCHEDULE

### FIRST YEAR — FIRST SEMESTER

	8	9	10	11	12	1	2	3	4	5
M			Biochemistry					Histology		
T			Anatomy					Histology		
W			Biochemistry					Anatomy		
Th			Anatomy	Biochem.				Histology		
F			Biochemistry					Histology		

### FIRST YEAR — SECOND SEMESTER

	8	9	10	11	12	1	2	3	4	5
M			Neuroanatomy					Bacteriology		
T		Embry.	Anatomy	N. Anatomy				Physiology		
W			Neuroanatomy		Physiol.			Bacteriology		
Th		Embry.	Anatomy					Bacteriology		
F			Anatomy		Physiol.			Bacteriology		

### SECOND YEAR — FIRST SEMESTER

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Physiol.	Medicine					Pathology		
T			Pathology		Physiol.			Physiology		
W		Pathology		Hygiene	Physiol.			Pathology		
Th	Pharm.	Physiol.	Psychob. or Biostat. (Alt.)					Physiology		
F	Pharm.	P. Diag.	Hygiene	Physiol.				Pathology		

### SECOND YEAR — SECOND SEMESTER, FIRST HALF

	8	9	10	11	12	1	2	3	4	5
M	Pharm.	Obstet.	Cl. Path.	Phy. Diag.				Pharmacology		
T	Pharm.	Med.	Hist. Med.	Surgery				Applied Anatomy		
W	Med.	Pharm.	Clinical Pathology					Pharmacology		
Th	Pharm.	Cl. Path.	Obstet.	Surgery				Applied Anatomy		
F	Phys. Diag.		Clinical Pathology					Pathology		

### SECOND YEAR — SECOND SEMESTER, SECOND HALF

	8	9	10	11	12	1	2	3	4	5
M	Med. or Surg.	Cl. Path.	Obstet.				Pathology	Hist. Med.	Anesth.	
T	Med. or Surg.	Pharm.	Surgery				Clinical Pathology			
W	Med.	Ph. Diag.	Pathology				Pharmacology			
Th	Med.	Phys. Diag.	Pharm.	Surgery			Clin. Path.			
F	Ph. Diag.		Pharm.	Obstet.			Clin. Path.			

# THE LIST OF STUDENTS 1949-1950

## FIRST-YEAR STUDENTS (ENTERED SEPTEMBER 19, 1949)

Beach, James Gordon, Jr. (A.B., West Virginia U., 1949)	Gary
Bond, William Foster (B.S., United States Naval Academy, 1943)	Montgomery
Bourn, Harvey Mahlon	Morgantown
Brancazio, Dominic Anthony	Weirton
Brown, Mary Dorcas (B.S., West Virginia Wesleyan College, 1946)	Buckhannon
Collins, Haydn Brian (A.B., West Virginia U., 1949)	Morgantown
Cunningham, Donald Edward (A.B., West Virginia U., 1948)	St. Albans
Davis, Charles Joseph, Jr.	Nitro
Davis, Edwin Dyer	Clendenin
Duncan, Laurence Lee	Charleston
Dunsmoor, Lyle Hall (B.S., West Virginia Wesleyan College, 1949)	Parkersburg
Farley, Charles Richard	Huntington
Fox, Leo, Jr.	Huntington
Hamilton, James William (A.B., West Virginia U., 1949)	Charleston
Haynes, William Ned (A.B., West Virginia U., 1949)	Welch
Hodges, Frank Vernon	Bluefield
Howes, Robert Winfield, Jr. (B.S., West Virginia Wesleyan College, 1949)	Parkersburg
Irons, Raymond Jack	Ronceverte
Jones, Dale Wren (A.B., West Virginia U., 1949)	Fairmont
Kendall, Ralph Lee (B.S., Davis and Elkins College, 1949)	Elkins
McCarty, George Eugene (B.S., Salem College, 1949)	Salem
McCoy, Arch Thomas	Peterstown
McDonald, Robert Melvin (B.S., West Virginia Wesleyan College, 1949)	Oak Hill
Moore, James Edward, Jr. (B.S., Marshall College, 1948)	Huntington
Naymick, George	Morgantown
Sanders, Arthur (A.B., West Virginia U., 1948)	Charleston
Shipper, John Calvin (A.B., Western Michigan College, 1948)	Martinsburg
Wiley, James Hugh	Logan
Withers, Donald Erwin (A.B., Duke University, 1949)	Fairmont
Wood, Cecil Kenneth (B.S., West Virginia Wesleyan College, 1949)	Bridgeport
Young, Mattie Louise	Charleston

## SECOND-YEAR STUDENTS (ENTERED SEPTEMBER 13, 1948)

Birckhead, Roland Stillwell (A.B., West Virginia U., 1948)	Glen Ferris
Brown, David Robert (B.S., West Virginia Wesleyan College, 1948)	Buckhannon
Cather, Carl Henry, Jr. (A.B., West Virginia U., 1948)	Morgantown
Cavender, Jerrill Drexel (A.B., West Virginia U., 1949)	Charleston
Coyner, Martha Jane (B.S., West Virginia U., 1942)	Buckhannon
Day, James Fair (A.B., West Virginia U., 1948)	Wheeling
Dyer, Newman Allen (A.B., West Virginia U., 1949)	Charleston
Fleming, Donald Eugene (B.S., Marietta College, 1948)	Weirton
Goff, Fred Lewis (A.B., West Virginia U., 1949)	Charleston
Grobe, James Lester	Huntington
Hamilton, Frank Alexander, Jr. (A.B., West Virginia U., 1949)	Martinsburg
Hatfield, Asel Poe	Harrisville
Hatfield, Johnny Ray (B.S., Concord College, 1949)	Gilbert
Hull, George Heltzel	Durbin
Jackson, Dorothy Virginia (B.S., West Virginia Wesleyan College, 1948)	Charleston
Janes, Robert Glenn (A.B., West Virginia U., 1948)	Fairmont
Matthews, Joseph George (A.B., West Virginia U., 1948)	Wheeling
Maxwell, Howard Jackson (A.B., West Virginia U., 1949)	Lost Creek
Morgan, David Zackquill (A.B., West Virginia U., 1948)	Kingwood
Murray, John Alexander (B.S.Ed., Concord College, 1947)	Princeton
Neal, Joseph Guthrie (B.S., Marshall College, 1947)	Huntington

Oram, Joseph Buddy (B.S., Concord College, 1948) .....	Lester
Plunkett, Anne Jean (A.B., West Virginia U., 1948) .....	Buckhannon
Reda, Frank Anthony, Jr. (A.B., West Virginia U., 1944) .....	Clarksburg
Rexrode, Luther Emerson (B.S. Phar., West Virginia U., 1948) .....	Sugar Grove
Sherman, John Watts (A.B., West Virginia U., 1948) .....	Morgantown
Starr, Richard Granville (A.B., West Virginia U., 1949) .....	Glen Morgan
Tabor, Richard Hugh (A.B., West Virginia U., 1949) .....	Charleston
Weimer, George Alexander (A.B., Bethany College, 1948) .....	Bethany
Wingfield, Richard Wayne (A.B., West Virginia U., 1949) .....	Elkins
Woodrum, Jack Donald (A.B., West Virginia U., 1949) .....	Bellepoint

# Curriculum in Medical Technology

## GENERAL INFORMATION

The curriculum in Medical Technology leads to the degree of Bachelor of Science (Medical Technology). This curriculum prepares students to serve as technicians in hospitals, clinics, research laboratories, etc., and in offices of private physicians.

Training standards for laboratory technicians are under general supervision of the Council on Medical Education and Hospitals of the American Medical Association, which inspects, evaluates, and approves schools. This School is included in the list of those approved by the American Medical Association. In this field, properly qualified persons, upon passing the required examinations, may be certified by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

During the first two years the student is registered in the College of Arts and Sciences and is under supervision of the premedical adviser. These two years are considered as preliminary training.

The third and fourth years include specialized and technical training of the curriculum. During these years the student is under jurisdiction of the School of Medicine. These students are not to be regarded, however, as medical students, nor can any course taken during these years be counted toward the M.D. degree.

Work of the last year is largely individual in nature, carried on in laboratories and hospitals. The students are considered as temporary members of the laboratory staff and are subject to usual regulations and discipline of the regular staff. This work occupies one entire calendar year of twelve months.

## COMMITTEE ON MEDICAL TECHNOLOGY

M. L. HOBBS (Professor of Pathology and Clinical Pathology), *Chairman*.

G. S. DODDS (Chairman of Committee on Entrance Scholarship).

JOHN M. SLACK (Associate Professor of Bacteriology and Public Hygiene).

E. J. VAN LIERE (Dean of Medical School).

## ADMISSION REQUIREMENTS

- (a) Admission requirements for the first year (pretechnology) are the same as for the College of Arts and Sciences, namely, 15 units of high-school work, including subjects specified in the *University Catalogue*.
- (b) For admission to the third year, students must complete the first two years of the curriculum outlined below in West Virginia University, or an equivalent program in other institutions of recognized standing.
- (c) Only a limited number of students can be accommodated in the third and fourth years. Preference is given to residents of West Virginia. Application should be made on forms obtainable from the School of Medicine and must be presented at the office of the Dean of the School. Applications should be made in February and will be considered after April 1. Admission is on recommendation of the Committee on Medical Technology and with approval of the Dean of the Medical School.

## IMMUNIZATION

The School of Medicine requires that during the first semester of the first year all students in Medical Technology must complete certain prescribed immunizations and diagnostic procedures. These are administered without charge by the University Health Service.

## FEES

For the first two years students pay the regular fees for students in College of Arts and Sciences. In the last two years, while students are under the jurisdiction of the School of Medicine, there is an additional tuition fee of \$25 per semester. For the Summer Term of the fourth year the fee is \$5 for residents and \$7 for non-residents. There is a breakage deposit of \$10 per year. The Graduation Fee of \$10 is due at the beginning of the last semester. Students not registered in the School of Medicine or the the College of Pharmacy pay \$4 per semester hour for courses given by the medical school faculty, in addition to the regular fee for the college in which they are registered.

## STANDARDS OF SCHOLARSHIP

The administration of scholarship standards is in charge of the Committee on Medical Technology. The following rules apply:

A student who does not make passing grades in at least half of the registration hours during any semester is automatically suspended. (General University rule.)

Eligibility to begin work of the fourth year is contingent upon the demonstration of personal aptitude for this work and upon full completion of the curriculum of the third year with a grade-point average of 1.5 per registration hour.

## REQUIREMENTS FOR THE DEGREE

The degree, Bachelor of Science (Medical Technology), will be given upon completion of the curriculum outlined below.

## THE CURRICULUM

During the first two years the student is registered in College of Arts and Sciences.

### FIRST YEAR (PRETECHNOLOGY)

<i>First Sem.</i>	<i>Hr.</i>	<i>Second Sem.</i>	<i>Hr.</i>
Inorganic chemistry 3 .....	4	Inorganic chemistry 4 .....	4
General zoology 1 .....	4	General zoology 2 .....	4
English composition 1 .....	3	English composition 2 .....	3
Modern foreign language .....	3	Modern foreign language .....	3
Electives .....	2	Electives .....	2
Physical education .....	1	Physical Education .....	1

### SECOND YEAR (PRETECHNOLOGY)

<i>First Sem.</i>	<i>Hr.</i>	<i>Second Sem.</i>	<i>Hr.</i>
Qualitative analysis 5 .....	4	Quantitative analysis 15 .....	3
English literature .....	3	English literature .....	3
Modern foreign language .....	3	Modern foreign language .....	3
General physics 1, 3 .....	4	General physics 2, 4 .....	4
Electives .....	2	Electives .....	2
Physical education .....	1	Physical education .....	1

NOTE: In addition to the courses listed above, male students must take military science to meet University requirements.

### THIRD YEAR

During the third and fourth years the student is under the jurisdiction of the School of Medicine. This part of the curriculum is open only to students approved by the Committee on Medical Technology.

<i>First Sem.</i>	<i>Hr.</i>	<i>Second Sem.</i>	<i>Hr.</i>
Pathogenic bacteriology 220 .....	5	Elementary physiology 141 .....	4
Organic chemistry 131 .....	4	General biochemistry 139 .....	4
Comparative anatomy 231 .....	5	Parasitology 120 .....	4
Electives .....	3	Clinical laboratory diagnostic methods 151 .....	4

### FOURTH YEAR

Work of the fourth year consists of practical experience under careful supervision in laboratories and hospitals. At present this training is given in the Department of Pathology of West Virginia University, the State Hygiene Laboratory, the Charleston General Hospital, and Fairmont General Hospital. The work covers the subjects listed below although these separate fields of training cannot be given in sequence as separate courses. This work continues throughout an entire calendar year. Students register in the University for a Summer Term (about 15 weeks) in addition to two regular semesters.

The professional courses required of fourth-year students follow:

100. LABORATORY PRACTICES. Summer term. 1 hr. Based upon the experience of the initial summer of the fourth year.
101. APPLIED BACTERIOLOGY. Yr. 4 hr. Methods of sterilization, preparation of culture media and vaccines, staining and study of bacteria, etc.
102. APPLIED PARASITOLOGY. Yr. 2 hr. Examination of feces for parasites and ova and of blood smears for parasites of the blood.
103. APPLIED SEROLOGY. Yr. 4 hr. Agglutination, precipitation, and complement fixation tests in serodiagnosis of syphilis and other diseases.
104. CLINICAL CHEMISTRY. Yr. 3 hr. Chemical examination of urine, blood, gastric contents, and spinal fluid for abnormal constituents and increased or decreased amounts of normal constituents.
105. ELECTROCARDIOGRAPHY. Yr. 2 hr. Study of the electrocardiographic machine and its practical employment on patients.
106. METABOLIMETRY. Yr. 2 hr. Study of the metabolism of carbohydrates, proteins, fats, minerals, etc., and the technique of basal metabolism.
107. MICROTECHNIQUE. Yr. 3 hr. Histological technique including paraffin, celloidin, and frozen sections with routine and special straining procedures.
108. NORMAL HEMATOLOGY. Yr. 4 hr. Methods of obtaining blood, hemoglobin determinations, enumeration of erythrocytes, leucocytes, and blood platelets; study of stained blood films, etc.
109. SPECIAL HEMATOLOGY. Yr. 3 hr. Study of blood dyscrasias, hemorrhagic diseases, blood groups, etc.,
110. RECORD KEEPING. Yr. 2 hr. Study of laboratory and hospital forms with proper methods of recording findings and filing laboratory reports.
111. URINE ANALYSIS. Yr. 5 hr. Clinical examination of normal and abnormal urines including general characteristics, qualitative and quantitative chemical analyses, microscopic studies, renal-function tests, etc.

# STUDENTS IN MEDICAL TECHNOLOGY

## THIRD YEAR

Cappellanti, Lenora Donna	Morgantown
Dyer, Dorothy Lucile	Charleston
Eakle, Allan Fairfax	Clay
Fawley, Ida Ruth	Morgantown
Goss, Patricia Ann	Wheeling
Griffith, Ruth Ramona	Beckley
Hammond, Jinnie Boreman	Pennsboro
Horter, Mary Lou	Wheeling
Starr, Mary Louise	Morgantown
Sutherland, Tommy June	Bluefield
Westfall, Patricia Gae	Grantsville
Zinn, Jessie Ruth	Wheeling

## FOURTH YEAR

Ackard, Lois Ann	Wheeling
Berger, Roberta Francine	Clarksburg
DeFranco, Helen Victoria	Charleston
Hanley, Joan Delores	Mannington
Ireland, Elizabeth Ann	Fairmont
Levine, Esther Sylvia	Morgantown
McCulloch, Elizabeth Ann	Charleston
Minnick, Mary Lou	Morgantown
Mohl, Betty Jeanne	Morgantown
Proudfoot, Alice Marie	Rowlesburg
Sabo, Gwyndolia Alice	Charleston
Shelton, Bryce Cardigan	Seth

# UNIVERSITY CALENDAR

1950

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June 3, Saturday	Alumni Day
June 4, Sunday	Baccalaureate Exercises
June 5, Monday	Commencement Day
June 7, Wednesday	Registration for first term, Summer Session
June 8, Thursday	First classes, first term, Summer Session
July 4, Tuesday	Independence Day, a holiday
July 18, Tuesday	Close of first term, Summer Session
July 19, Wednesday	Registration for second term, Summer Session
July 20, Thursday	First classes, second term, Summer Session
August 29, Tuesday	Close of Summer Session
September 13, Wednesday, to September 19, Tuesday	Freshman Week Program
September 16, Saturday	Registration of Freshmen
September 18 and 19, Monday and Tuesday	Registration for first semester
September 20, Wednesday	First classes, first semester
October 10, Tuesday	Meeting of University Senate
November 7, Tuesday	Election Day, a holiday
November 13, Monday	Midsemester reports due
November 22, Wednesday, to November 26, Sunday, inclusive	Thanksgiving recess
December 22, Friday, to January 3, Wednesday, inclusive	Christmas recess

1951

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January 20, Saturday, to January 27, Saturday, inclusive	Final examinations for first semester
January 30 and 31, Tuesday and Wednesday	Registration for second semester
February 1, Thursday	First classes, second semester
February 7, Wednesday	West Virginia University Day
February 13, Tuesday	Meeting of University Senate
March 19, Monday	Midsemester reports due
March 22, Thursday, to March 28, Wednesday, inclusive	Easter recess
May 8, Tuesday	Meeting of University Senate
May 24, Thursday, to June 1, Friday	Final examinations for second semester
May 30, Wednesday	Memorial Day, a holiday
June 2, Saturday	Alumni Day
June 3, Sunday	Baccalaureate Exercises
June 4, Monday	Commencement Day



# YEAR 1950

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31					26	27	28					26	27	28	29	30	31		23	24	25	26	27	28	29
																					30						

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3							1							
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30	31		
														30	31												

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1	1	2	3	4	5	6	7					1	2	3	4					1	2
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
																					31						

# YEAR 1951

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
	1	2	3	4	5	6					1	2	3					1	2	3	1	2	3	4	5	6	7	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	8	9	10	11	12	13	14	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	15	16	17	18	19	20	21	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28	
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31	29	30						
MAY							JUNE							JULY							AUGUST							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
			1	2	3	4						1	2	1	2	3	4	5	6	7					1	2	3	4
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	31		
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1					1	2	3	4	5	6				1	2	3	4	5	6	7	8	
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	
30																					30	31						

The days on which the University is in session are printed in light-face type; Sundays, holidays, and vacations in bold-face type.





